06 - STRUCTURAL INDEX OF DRAWINGS

	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
S-001	STRUCTURAL INDEX OF DRAWINGS	S-021	RETAINING WALL-1
S-002	GENERAL NOTES AND ABREVEATIONS	S-022	RETAINING WALL-2
S-003	FOUNDATION PLAN-1	S-023	SALT SHED REPAIR-1
S-004	FOUNDATION PLAN-2	S-024	SALT SHED REPAIR-2
S-005	SLAB PLAN-1	S-025	SALT SHED REPAIR-3
S-006	SLAB PLAN-2		
S-007	ROOF FRAMING PLAN-1		
S-008	ROOF FRAMING PLAN-2		
S-009	FOUNDATION DETAILS-1		
S-010	FOUNDATION DETAILS-2		
S-011	FOUNDATION DETAILS-3		
S-012	FOUNDATION DETAILS-4		
S-013	FOUNDATION DETAILS-5		
S-014	FRAME ELEVATION-1		
S-015	FRAME ELEVATION-2		
S-016	STEEL DETAILS		
S-017	STEEL DETAILS-2		
S-018	MASONRY DETAILS		
S-019	MASONRY, DETENSION BASIN DETAILS		
S-020	MISC. TYPICAL CONCRETE DETAILS		

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

TRANSPORTATION PRINCIPAL ENGINEER

					DES:
-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED	
_	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	CHE
-	_	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.	
-	-	-	_		
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 6/11/2015	

ESIGNER/DRAFTER: DCS HECKED BY: RPL	STATE OF CONNECTICUT
SCALE AS NOTED	DEPARTMENT OF TRANSPORTATION

Filename: ...\FD_MST_STR_0103_0247_S001.dgn

SIGNATURE/ BLOCK:	PRO
OFFICE OF ENGINEERING	
APPROVED BY:	
Amy M.D -	

OCCUM
MAINTENANCE
FACILITY

OCCUM	103-247	
RAWING TITLE:	S-001	
STRUCTURAL INDEX OF DRAWINGS	SHEET NO. 06.01	

CODES AND REFERENCES

ALL WORK SHALL CONFORM TO THE STATE OF CONNECTICUT BUILDING CODE WITH 2005 CONNECTICUT SUPPLEMENT AND 2009 AMENDMENTS AND ALL CONTRACT DOCUMENTS.

DESIGN LOADS

- OF SNOW LOAD
 GROUND SNOW LOAD, Pg = 40 PSF.
 FLAT-ROOF SNOW LOAD, Pf = 34 PSF.
 EXPOSURE FACTOR, Ce = 1.0
 SNOW IMPORTANCE FACTOR, Is = 1.2
- 2. WIND LOAD a. BASIC WIND SPEED, 110 MPH. b. WIND IMPORTANCE FACTOR, IW = 1.15
- 3. SEISMIC LOAD

 a. PEAK VELOCITY-RELATED ACCELERATION, Av = 0.11
 b. PEAK ACCELERATION, Aa = 0.15
 c. SEISMIC IMPORTANCE FACTOR, Ie = 1.5
 d. SEISMIC USE GROUP III
 e. SITE CLASSIFICATION C
 f. LATERAL LOAD-RESISTING SYSTEMS:
 STEEL BRACED FRAME
 REINFORCED CMU SHEAR WALLS
 - RESPONSE MODIFICATION FACTOR, R = 3DEFLECTION AMPLIFICATION FACTOR, Cd = $2\frac{1}{2}$
 - ANALYSIS PROCEDURE UTILIZED EQUIVALENT LATERAL FORCE PROCEDURE SEISMIC DESIGN CATEGORY C. SEISMIC LOAD FACTORS, Ss = 0.222, S1 = 0.06SDs = 0.1776, SD1 = 0.068

CONCRETE

- FOUNDATIONS SHALL BE PLACED ON 12 INCHES MINIMUM OF COMPACTED GRANULAR FILL IN ACCORDANCE WITH FORM 816, SECTION 2.13, AND BE EXTENDED 12 INCHES BEYOND THE LIMITS OF FOOTING ON ALL SIDES AND MAY BEAR ON PREPARED IN-SITU SOIL. THE AREA OUTSIDE OF THE LIMITS OF GRANULAR FILL IS TO HAVE THE FOUNDATION PREPARATION IN ACCORDANCE WITH FORM 816, SECTION 2.03.03-2.
- 2. SLAB-ON-GRADE SHALL BE PLACED ON 6 INCHES THICK OF GRANULAR FILL IN ACCORDANCE WITH FORM 816. SECTION 2.13.
- 3. PROVIDE RIGID INSULATION AT EXTERIOR WALLS (TYP.) AND VAPOR BARRIER UNDER SLAB-ON-GRADE (TYP.), AS SHOWN ON THE STRUCTURAL PLANS.
- 4. THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF FOUNDATION EXPANSION JOINTS AND MASONRY CONTROL JOINTS. CONTROL JOINTS FOR MASONRY SHALL BE PLACED AT LOCATIONS WHERE EXPANSION JOINTS OCCUR IN THE FOUNDATION.
- 5. CONTROL JOINTS IN THE FOUNDATION WALLS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 50 FT.
- 6. REINFORCED CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- 7. ALL CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT AND SHALL BE CLASS 'F' IN ACCORDANCE WITH FORM 816, SECTION M.03. AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
- 8. REINFORCING BARS SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- 9. COORDINATE PLANS WITH THE CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MISCELLANEOUS CONCRETE WORK.
- 10. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185.
- 11. REINFORCEMENT DETAILS SHALL CONFORM TO ACI 318. ALL CONCRETE REINFORCEMENT SPLICES SHALL BE ACI 318 CLASS 'B' SPLICES, UNLESS OTHERWISE NOTED.
- 12. ADDITIONAL REINFORCEMENT AT PENETRATIONS THROUGH REINFORCED CONCRETE WALLS AND SLABS SHALL BE PROVIDED AS SHOWN ON THE STRUCTURAL PLANS.
- 13. EXPOSED CORNERS OF CONCRETE SHALL HAVE A $\frac{3}{4}$ " X $\frac{3}{4}$ " CHAMFER, UNLESS OTHERWISE NOTED.
- 14. NON-SHRINK GROUT UNDER BASE PLATES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6,000 PSI.
- 15. REINFORCING CLEAR COVER, UNLESS OTHERWISE NOTED: FOOTINGS - 3" FOUNDATION WALLS AND PIERS - 2" SLAB ON GRADE - 2"
- 16. CONCRETE MIX DESIGN WITH ADMIXTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

REVISION DESCRIPTION

- - - -

- | - | -

- - -

- - - -

- - -

REV. DATE

STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"
- 2. STRUCTURAL W-SHAPES, CHANNELS, ANGLES AND PLATES SHALL CONFORM TO ASTM A992 50 KSI, STEEL, UNLESS OTHERWISE NOTED. STRUCTURAL TUBE SHALL CONFORM TO ASTM A618, 50 KSI, GRADE 1.
- 3. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.1, USING E7018 ELECTRODES.
- 4. WHERE WELD SIZES ARE NOT SPECIFIED, A MINIMUM WELD SIZE SHALL BE USED IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.1
- 5. WELDS SHALL BE VISUALLY INSPECTED, UNLESS OTHERWISE
- 6. SHOP AND FIELD WELDS SHALL BE INSPECTED BY AN AWS-CERTIFIED WELDING INSPECTOR HIRED BY THE CONTRACTOR.
- 7. BOLTS SHALL BE $\frac{3}{4}$ " DIAMETER ASTM A325-X WITH $\frac{13}{16}$ ' DIAMETER HOLES, UNLESS OTHERWISE NOTED. ALL BOLT CONNECTIONS SHALL BE SLIP-CRITICAL UNLESS OTHERWISE NOTED.
- 8. ALL A325 BOLTS SHALL BE PRETENSIONED, UNLESS OTHERWISE NOTED. TENSION-CONTROL (TC) BOLTS ARE ALSO ACCEPTABLE.
- 9. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS.
- 10. ALL STRUCTURAL STEEL SHALL BE PRIMED AND PAINTED IN CONFORMANCE WITH THE CONTRACT SPECIFICATIONS. ALL SURFACES SHALL BE BLAST-CLEANED PER PROVISIONS OF SSPC-SP 10, "NEAR-WHITE BLAST CLEANING".
- 11. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, UNLESS OTHERWISE NOTED.
- 12. COLUMN BASE PLATES SHALL BE LEVELED USING DOUBLE NUTS AND GROUT.
- 13. THE CONTRACTOR SHALL COMPLY WITH OSHA SAFETY STANDARD FOR STEEL ERECTION, EFFECTIVE JANUARY 18, 2002.

MASONRY

SCALE AS NOTED

- MASONRY DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
- 2. CONCRETE BLOCK UNITS SHALL BE TYPE I, LIGHTWEIGHT, LOAD BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90 FOR HOLLOW BLOKS AND ASTM C145 FOR SOLID BLOCKS.
- 3. CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (fm) OF 1,900 PSI.
- 4. ALL REINFORCED CELLS SHALL BE CONTINUOUSLY GROUTED. GROUT IS TO CONFORM TO ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
- 5. MORTAR FOR CONCRETE BLOCK SHALL BE TYPE S, CONFORMING TO ASTM C270, AS SPECIFIED, ULESS NOTED OTHERWISE. THE FIRST COURSE OF BLOCK SHALL BE PLACED USING A FULL MORTAR BED. FOR EXTERIOR BRICK VENEER MORTAR SHALL BE TYPE N, CONFORMING TO ASTM C270.
- 6. MASONRY WALLS WITH A HEIGHT GREATER THAN 12 FT. SHALL BE LATERALLY SUPPORTED AT THE TOP AS SPECIFIED ON THE STRUCTURAL DRAWINGS USING ANGLES ATTACHED TO STRUCTURAL STEEL OR ROOF DECKING, UNLESS OTHERWISE NOTED. THE ATTACHMENT SHALL ALLOW VERTICAL MOVEMENT (DEFLECTION) OF THE DECK AND JOIST, UNLESS OTHERWISE NOTED. ALL MASONRY WALLS SHALL BE APPROPRIATELY SHORED DURING CONSTRUCTION TO RESIST ALL DESIGN WIND LOADING.
- 7. BOND BEAMS WITH TWO (2) #5 BARS SHALL BE PROVIDED AT THE TOP OF ALL MASONRY WALLS, UNLESS OTHERWISE NOTED.
- 8. LINTELS SHALL BE PROVIDED AT ALL MASONRY OPENINGS AS SHOWN ON THE STRUCTURAL PLANS OR AS REQUIRED DUE TO ELECTRICAL OR MECHANICAL PENETRATIONS, UNLESS OTHERWISE NOTED.
- 9. PROVIDE ONE (1) #5 REBAR EACH SIDE OF ALL OPENINGS WITHIN MASONRY, OR CELLS ADJACENT TO STRUCTURAL STEEL OR CONTROL JOINTS. REBAR SHALL EXTEND 2 FEET BEYOND OPENING, OR BE HOOKED IF APPROVED BY THE DESIGNER.
- 10. ALL VISIBLE JOINTS SHALL BE SEALED. PROVIDE BACKER ROD.
- 11. PROVIDE CONTROL JOINTS IN MASONRY AS SHOWN ON THE PLANS AND AS CALLED FOR WITHIN THE CONTRACT SPECIFICATIONS.

Filename: ...\FD_MST_STR_0103_0247_S002.dan

- 12. WHERE MASONRY IS ADJACENT TO STRUCTURAL STEEL, FLEXIBLE ANCHORS, COMPRESSIBLE JOINT FILLER MATERIAL AND JOINT SEALANT SHALL BE USED.
- 13. MASONRY REINFORCEMENT SPLICES SHALL CONFORM TO ACI 530, UNLESS OTHERWISE SHOWN.
- 14. UNFINISHED WALLS AT THE END OF A WORKDAY SHALL BE COVERED TO PREVENT INFILTRATION OF WATER.

STEEL JOIST

- 1. STEEL JOISTS SHALL BE INSTALLED IN ACCORDANCE THE THE SJI STANDARD SPECIFICATIONS FOR STEEL JOIST CONSTRUCTION, UNLESS OTHERWISE NOTED. WELDERS MUST BE AWS-CERTIFIED.
- 2. WHERE THE BOTTOM OF A JOIST IS TO BE ATTACHED TO A BEAM, COLUMN OR WALL, THE ATTACHMENT SHALL BE MADE AFTER THE ROOF SYSTEM HAS BEEN INSTALLED AND ATTAINED FULL DEAD LOAD DEFLECTION.
- 3. MISCELLANEOUS SUPPORTS ATTACHED TO JOISTS SHALL BE LOCATED AT THE PANEL POINTS (NODES) AND SHALL NOT IMPOSE LOADS EXCEEDING 200 POUNDS
- 4. ALL JOIST EXTENSIONS SHALL BE PROVIDED AS INDICATED ON THE PLANS OR AS REQUIRED FOR COMPLETE INSTALLATION.
- 5. ALL JOISTS SHALL BE ANCHORED DOWN AT BEARING POINTS AS SHOWN ON THE STRUCTURAL PLANS.
- 6. JOISTS SHALL BE DESIGNED FOR 15 LBS. PER SQUARE FOOT OF NET UPLIFT FORCE.
- 7. THE JOIST MANUFACTURER SHALL VERIFY THE WEIGHTS OF EQUIPMENTS (UNIT HEATERS, ETC.) AND POINTS OF SUPPORTS FOR THE PURPOSE OF SPECIAL JOIST MANUFACTURE, WHERE APPLICABLE.

METAL DECKING

- ALL STEEL DECK SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO THE SDI "SPECIFICATIONS FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION," AND SHALL BE INSTALLED ACCORDING TO THE PROVISIONS AS OUTLINED WITHIN THE CONTRACT SPECIFICATIONS.
- 2. ALL STEEL DECK SHALL COMPLY WITH ASTM A446, AND SHALL BE GALVANIZED PER ASTM A525, COATING DESIGNATION G90.
- 3. METAL DECKING SHALL BE ATTACHED AS SPECIFIED IN SPECIFICATION SECTION 053100 OF THE CONTRACT SPECIFICATIONS.
- 4. ROOF DECK SHALL BE $1\frac{1}{2}$ " WIDE RIB, 18 GAUGE STEEL TYPE B, WITH MINIMUM YIELD STRENGTH OF 33 KSI. -SUPPORT FASTENERS: 5/8" PUDDLE WELDS, -SIDELAP FASTENERS: 3-#10 TEK SCREWS
- 5. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIRMENTS OF AWS D1.3.
- 6. PRIOR TO CONSTRUCTION OF METAL DECK, TESTS MUST BE PERFORMED TO DETERMINE IF THE THICKNESS OF THE METAL DECK IS ADEQUATE TO SUSTAIN PUDDLE WELDING WITHOUT EXCESSIVE BLOWOUT OF THE MATERIAL, IF FOUND TO BE NOT ADEQUATE, PUDDLE WASHERS MUST BE USED IN THE ENTIRE DECK CONSRUCTION.

GENERAL NOTES

- 1. THE STRUCTURAL DRAWINGS SHALL BE COORDINATED WITH OTHER DISCIPLINE DRAWINGS AND WITH EQUIPMENT MANUFACTURERS TO ENSURE THAT OPENINGS IN THE ROOF AND WALLS ARE PROVIDED WITH THE REQUIRED APPURTENANT FRAMING OR SUPPORT SYSTEM.
- 2. DIMENSIONS AND DETAILS RELATED TO THE SIZE AND LOCATION OF EQUIPMENT SHALL BE VERIFIED WITH THE EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION.
- 3. SIZES AND LOCATIONS OF EMBEDDED MECHANICAL AND ELECTRICAL FIXTURES SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
- 4. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITIES OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND IMPLEMENTING THE NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- TEMPORARY BRACING, SHEETING, SHORING AND OTHER SIMILAR SAFETY PRECAUTIONARY MEASURES DURING CONSTRUCTION ARE THE RESPONSIBILITIES OF THE CONTRACTOR AND SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER EMPLOYED BY HIM.

ROJECT TITLE:

- 6. THE CONTRACTOR SHALL REPAIR, AT THEIR OWN EXPENSE, ANY DAMAGE TO THE STRUCTURES AND APPURTENANCES DUE TO CONTRACTOR'S CONSTRUCTION OPERATIONS.
- 7. THE IMPLEMENTATION OF JOB SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

ABBREVIATIONS

BEARING BOTTOM OF FOOTING ELEVATION B.O.S. BOTTOM OF STEEL B.O.G. BOTTOM OF GIRT CENTER LINE CONTROL (CONTRACTION) JOINT COL COLUMN CONC CONCRETE CONC BLK CONCRETE BLOCK CONT CONTINUOUS **DETAIL** DIA; Ø DIAMETER DOUBLE ANGLE EACH **ELEVATION EQUAL** EXPANSION (ISOLATION) JOINT

EACH WAY FLOOR DRAIN FΗ

FLIPPED HORIZONTALLY FV FLIPPED VERTICALLY FINISH FLOOR ELEVATION FT

GRT **GIRT** HIGH POINT HEIGHT JOINT

LOW POINT **MAINTENANCE**

MATL **MATERIAL** METAL MFR **MANUFACTURER** MINIMUM M.O. MASONRY OPENING

NOT TO SCALE O.C.

ON CENTER OVERHEAD PL PLATE

REINF REINFORCED REQ REQUIRED RO ROUGH OPENING RD ROOF DRAIN

SECT **SECTION** SIM **SIMILAR** SP **SPECIAL** SQ **SQUARE** STRUCT STRUCTURAL T & B TOP AND BOTTOM

TOC TOP OF CONCRETE TOCh TOP OF CHANNEL T.O.B. TOP OF BEAM TOG TOP OF GRATE TOJ TOP OF JOIST TOKW TOP OF KNEEWALL T.O.P. TOP OF PIER T.O.S. TOP OF STEEL TS STRUCTURAL STEEL TUBING T.W.E. TOP OF WALL ELEVATION

TYPICAL UON UNLESS OTHERWISE NOTED

UOS UNLESS OTHERWISE SHOWN VL VALLEY LINE (FLOOR DRAINAGE)

W/ WWR WELDED WIRE REINFORCEMENT

DCS THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED RPL INVESTIGATIONS BY THE STATE AND IS N NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

SHEET NO. Plotted Date: 7/22/2015

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

OFFICE OF ENGINEERING PPROVED BY: Amy N.D.

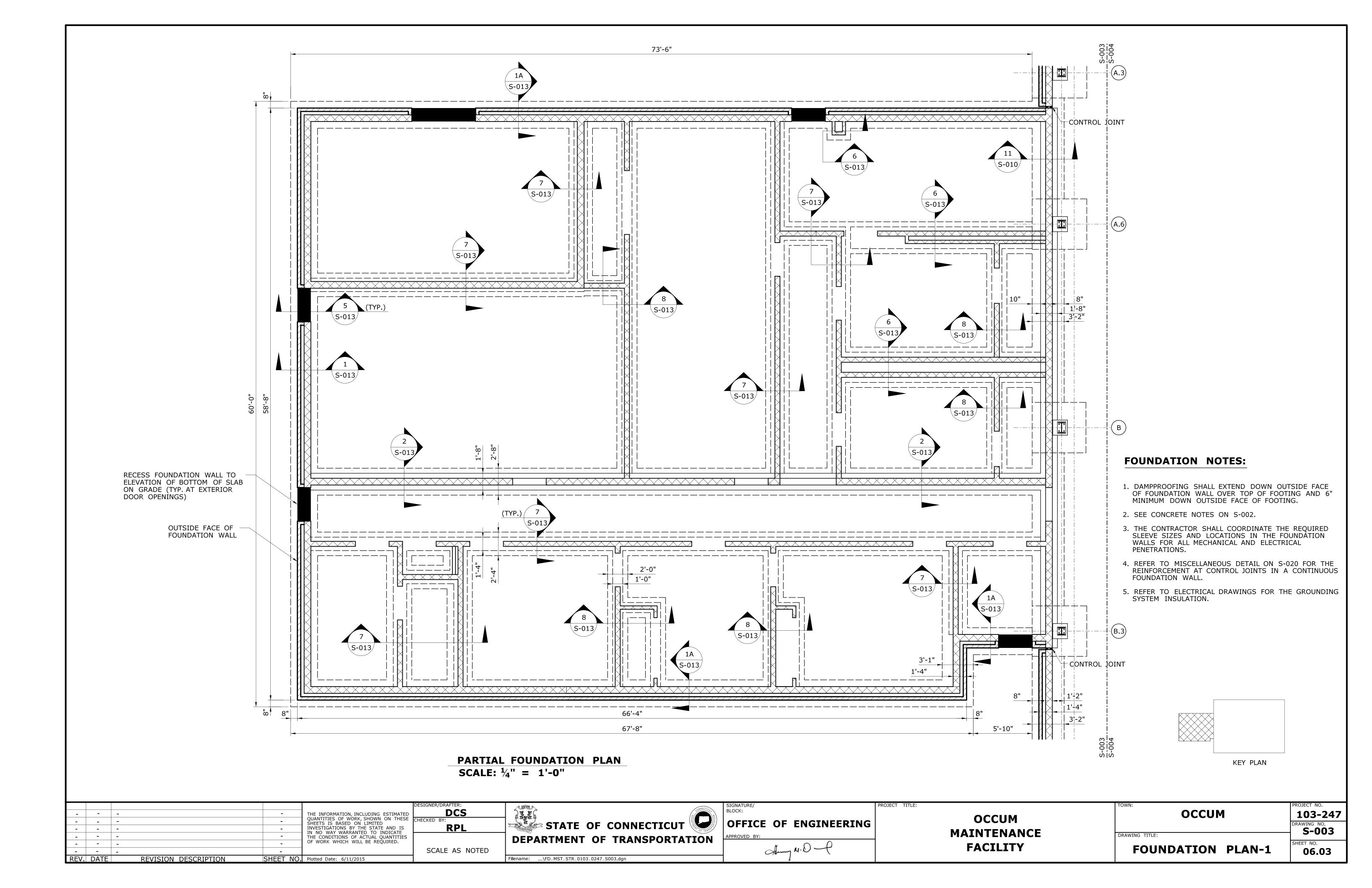
BLOCK:

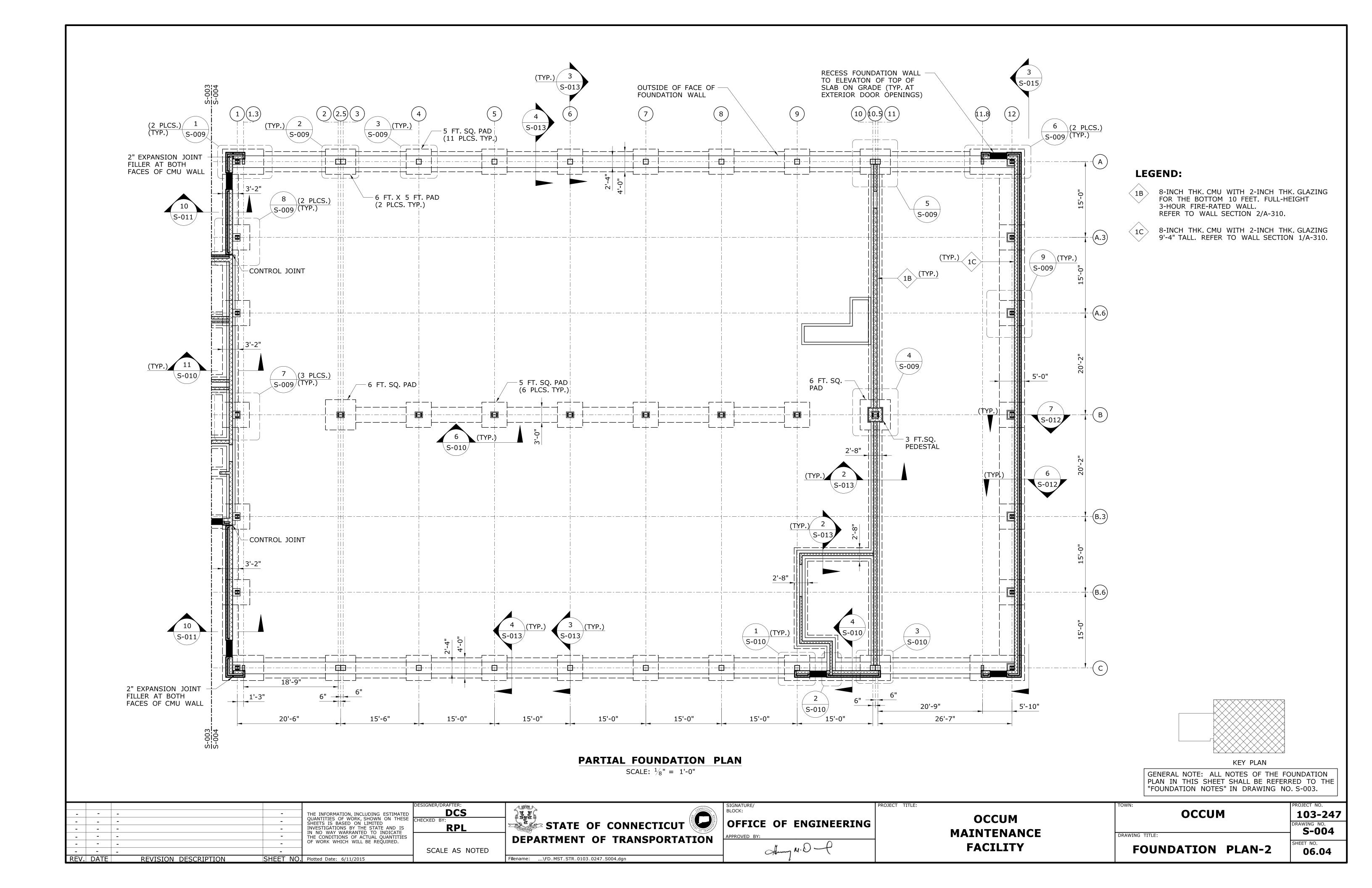
OCCUM MAINTENANCE FACILITY

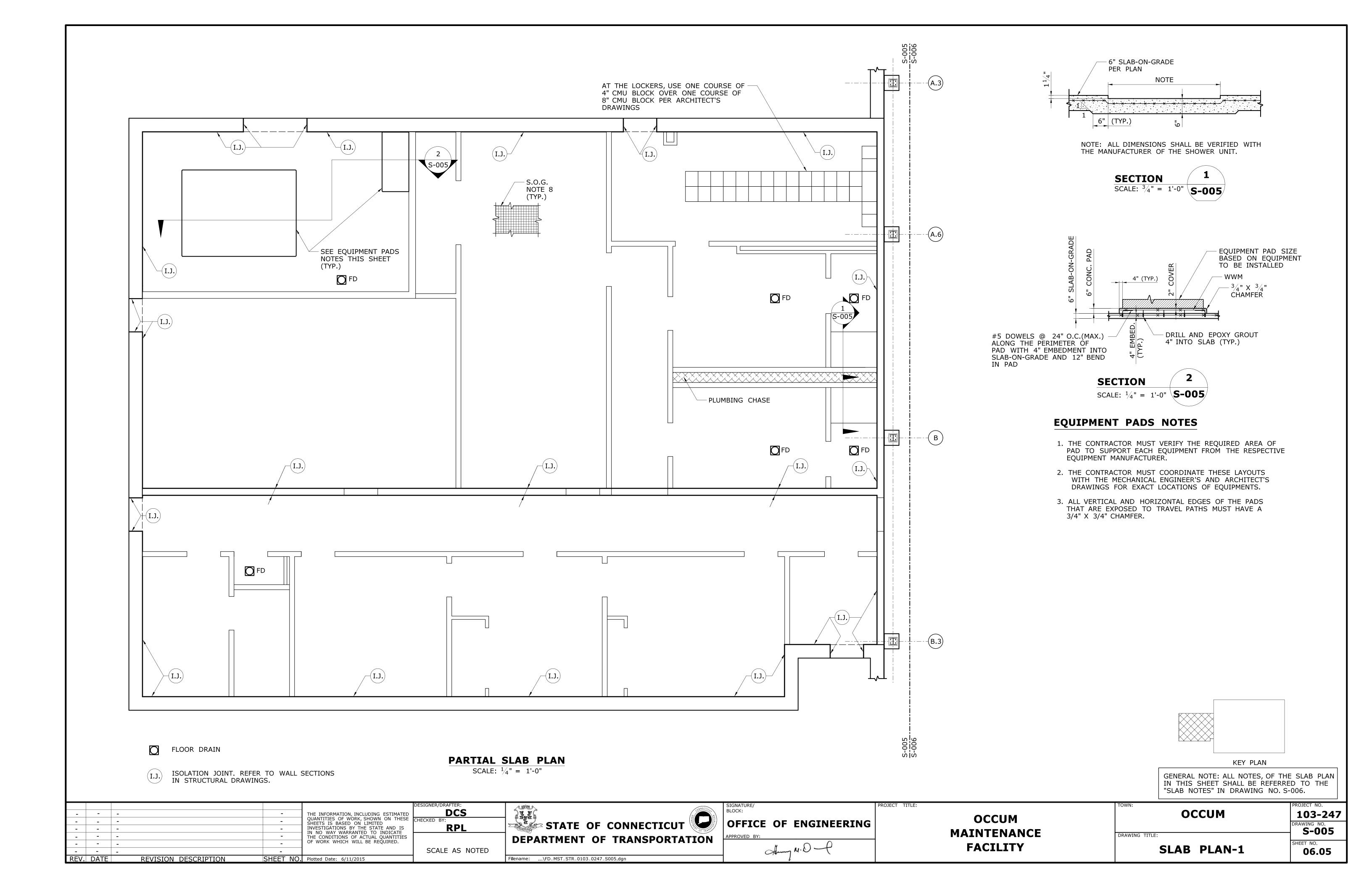
GENERAL NOTES AND ABREVEATIONS

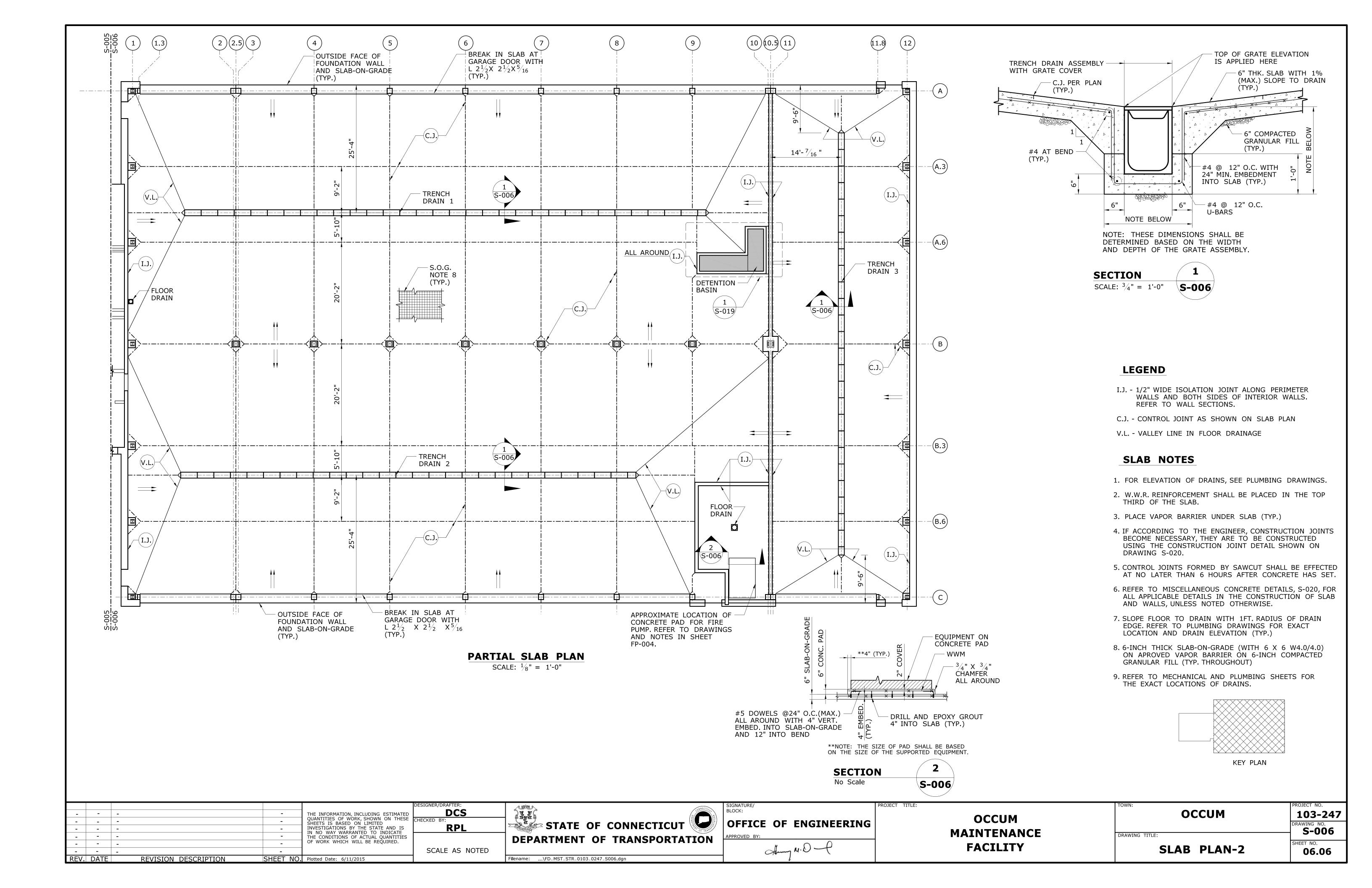
OCCUM

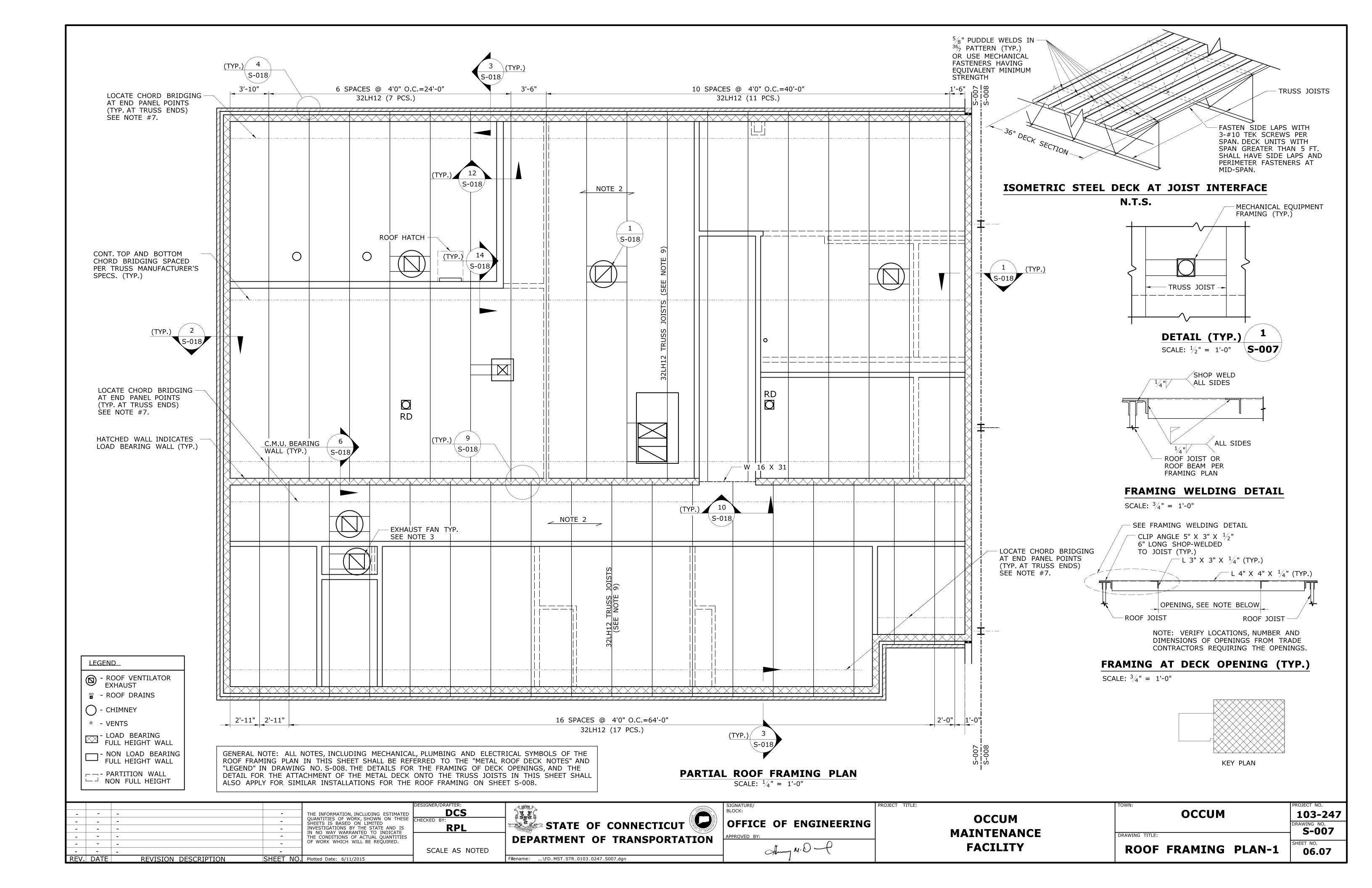
103-247 S-002 06.02

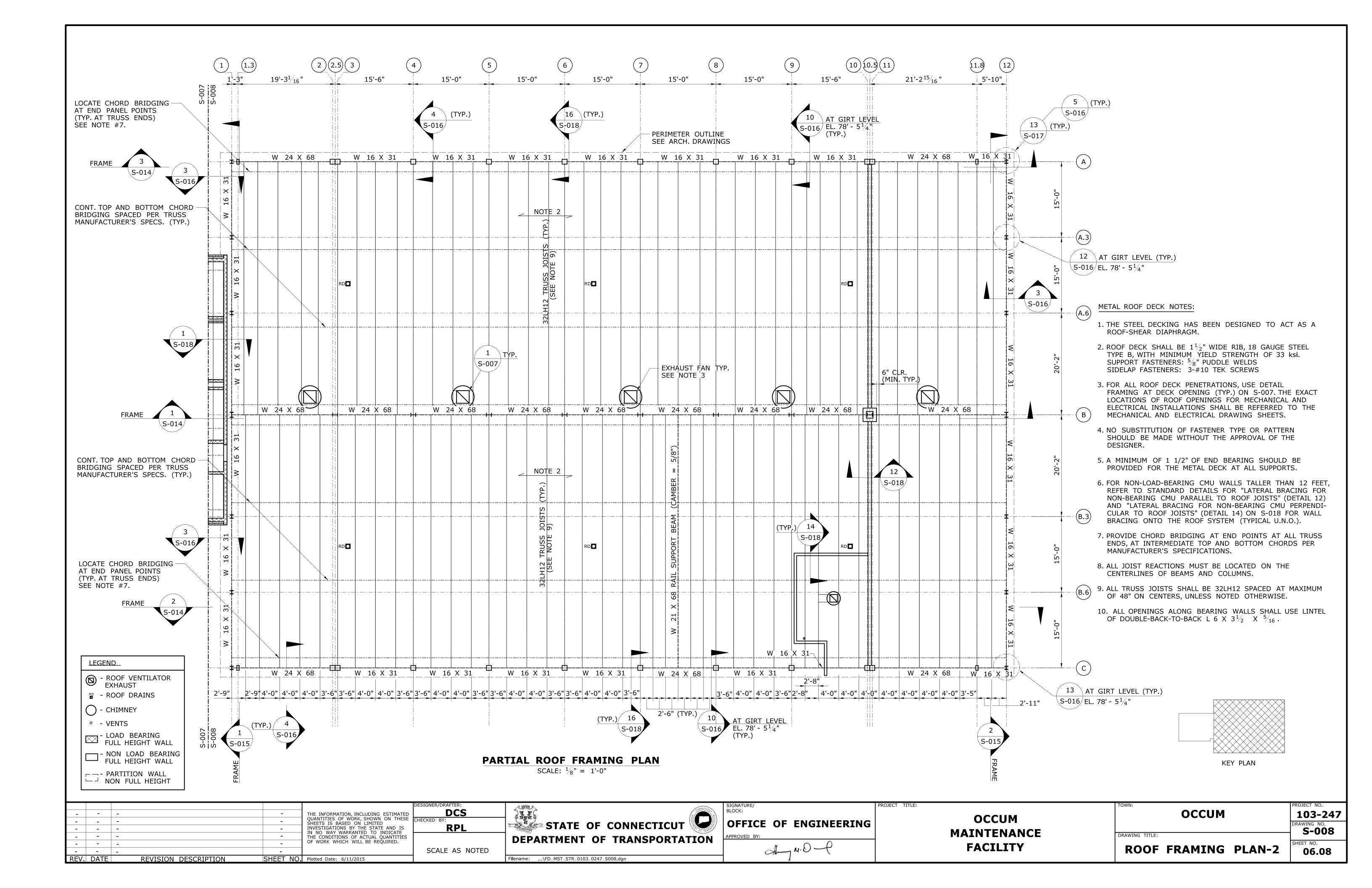


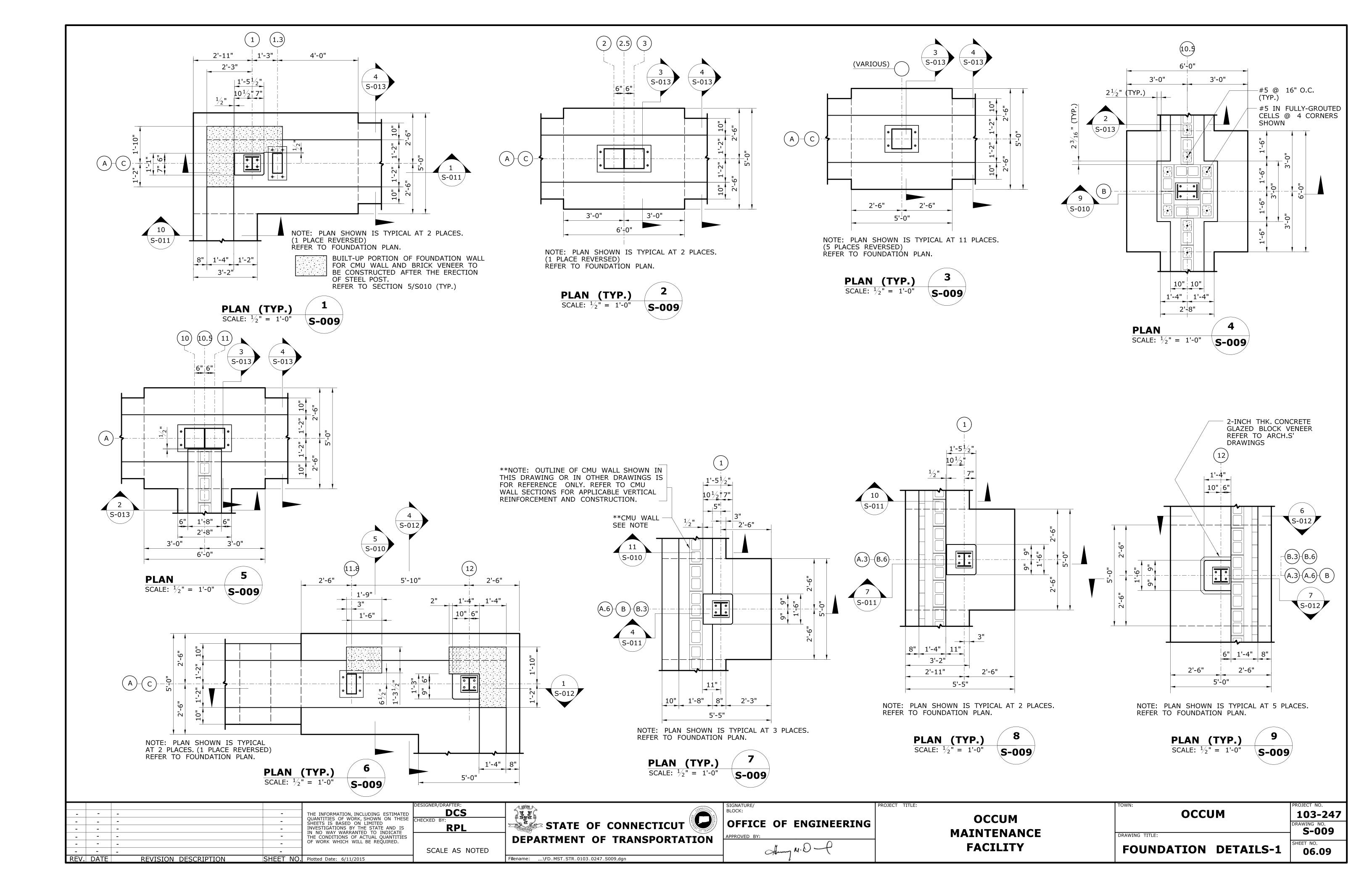


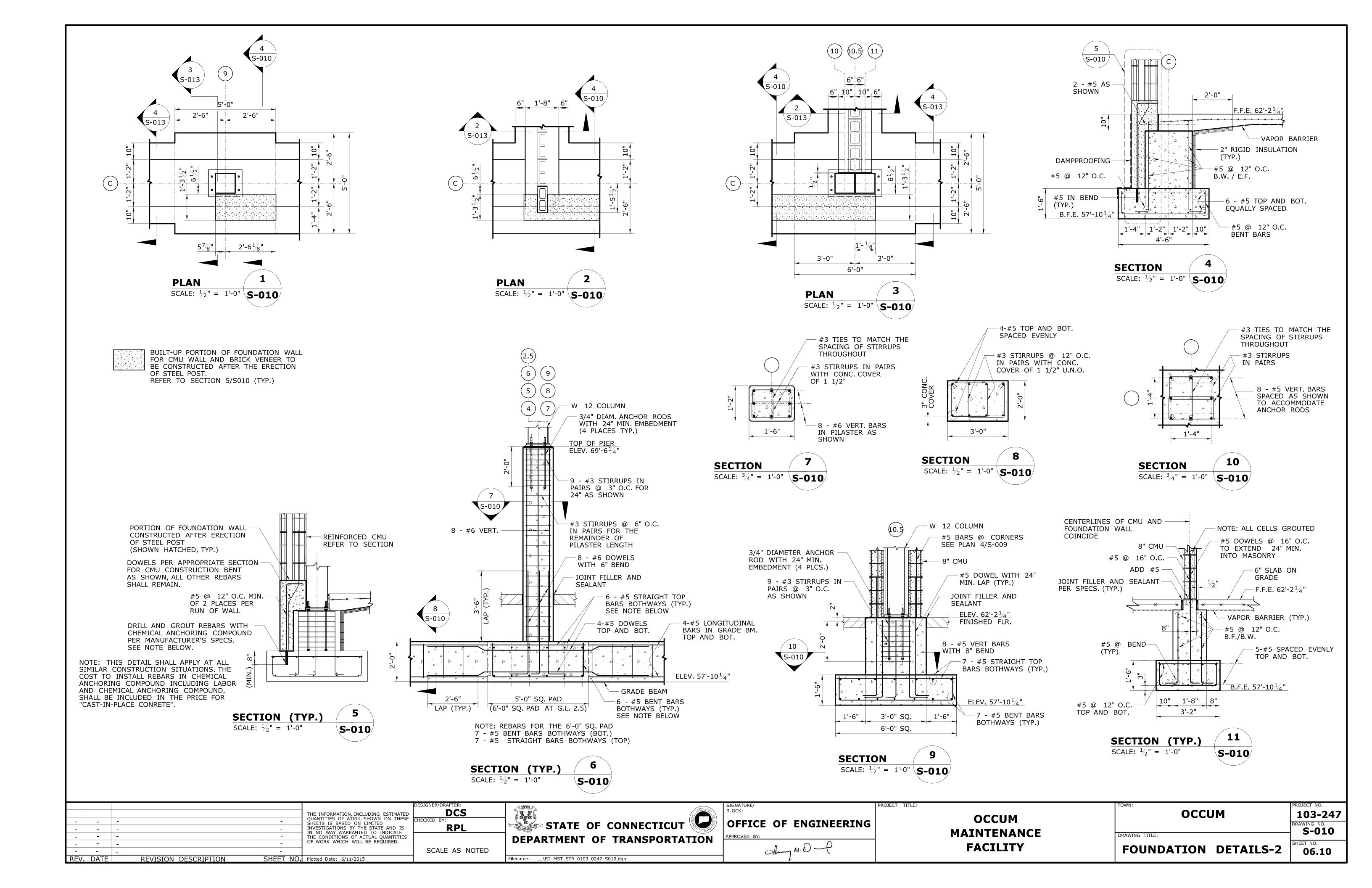


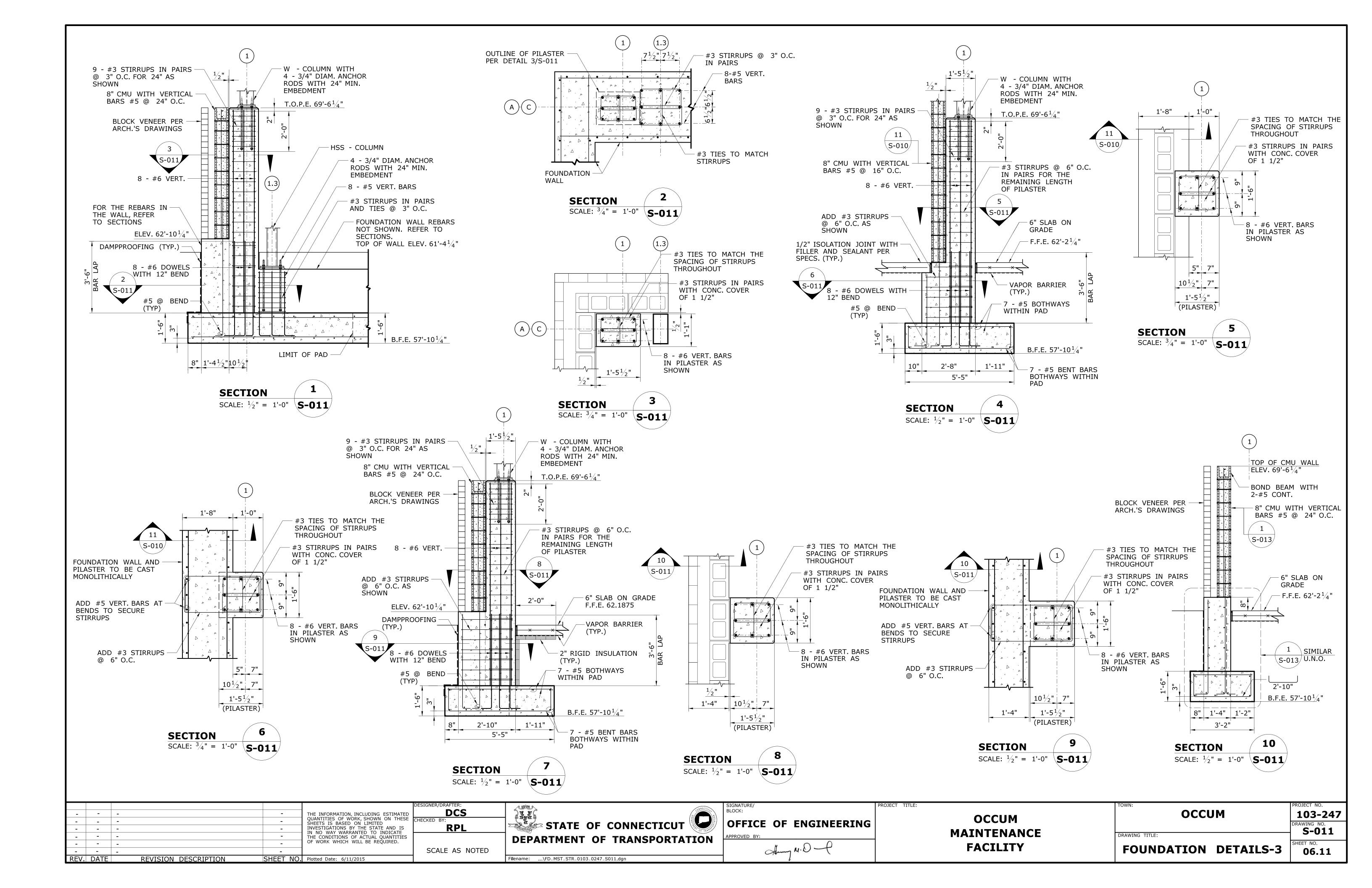


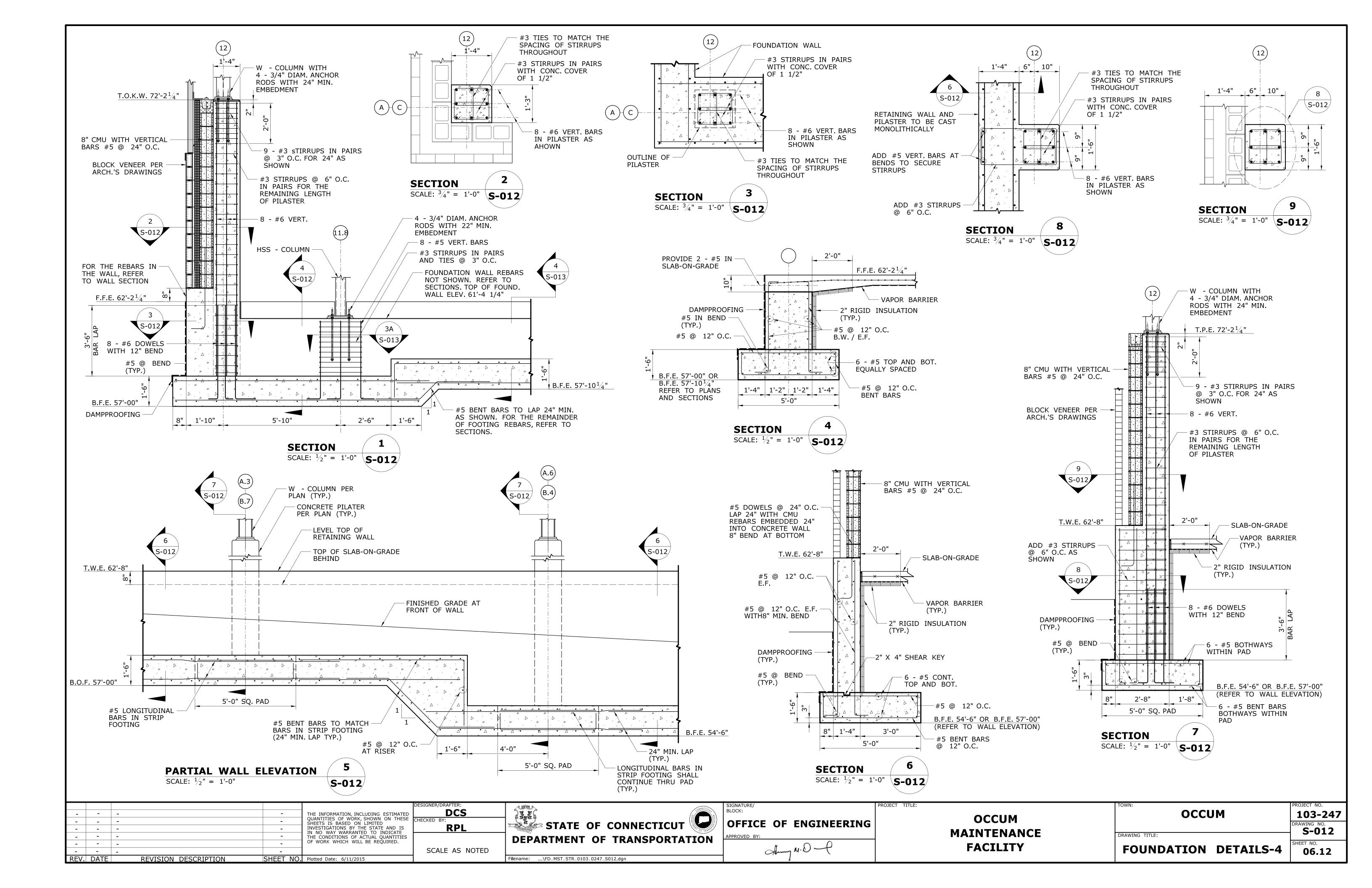


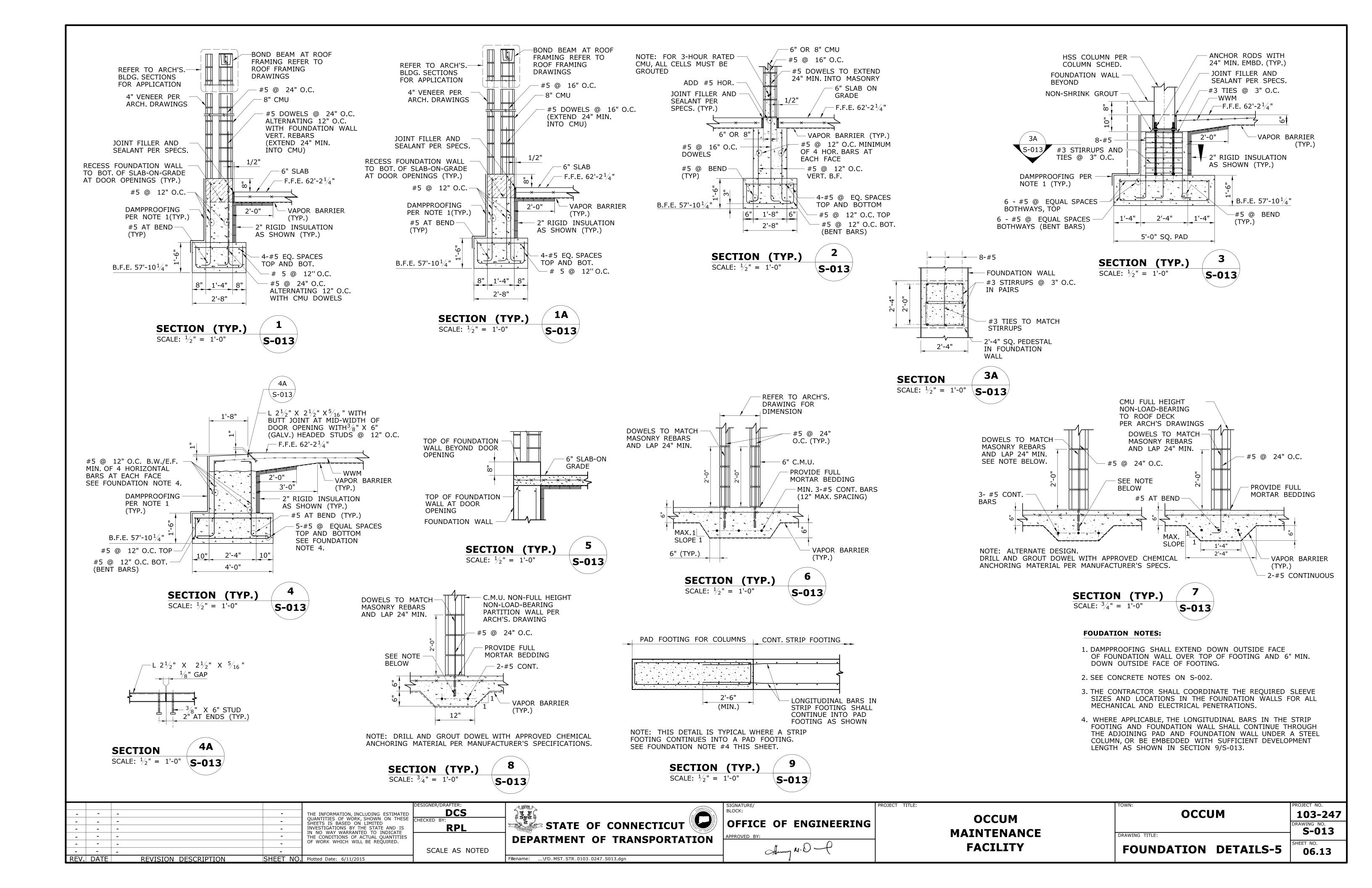


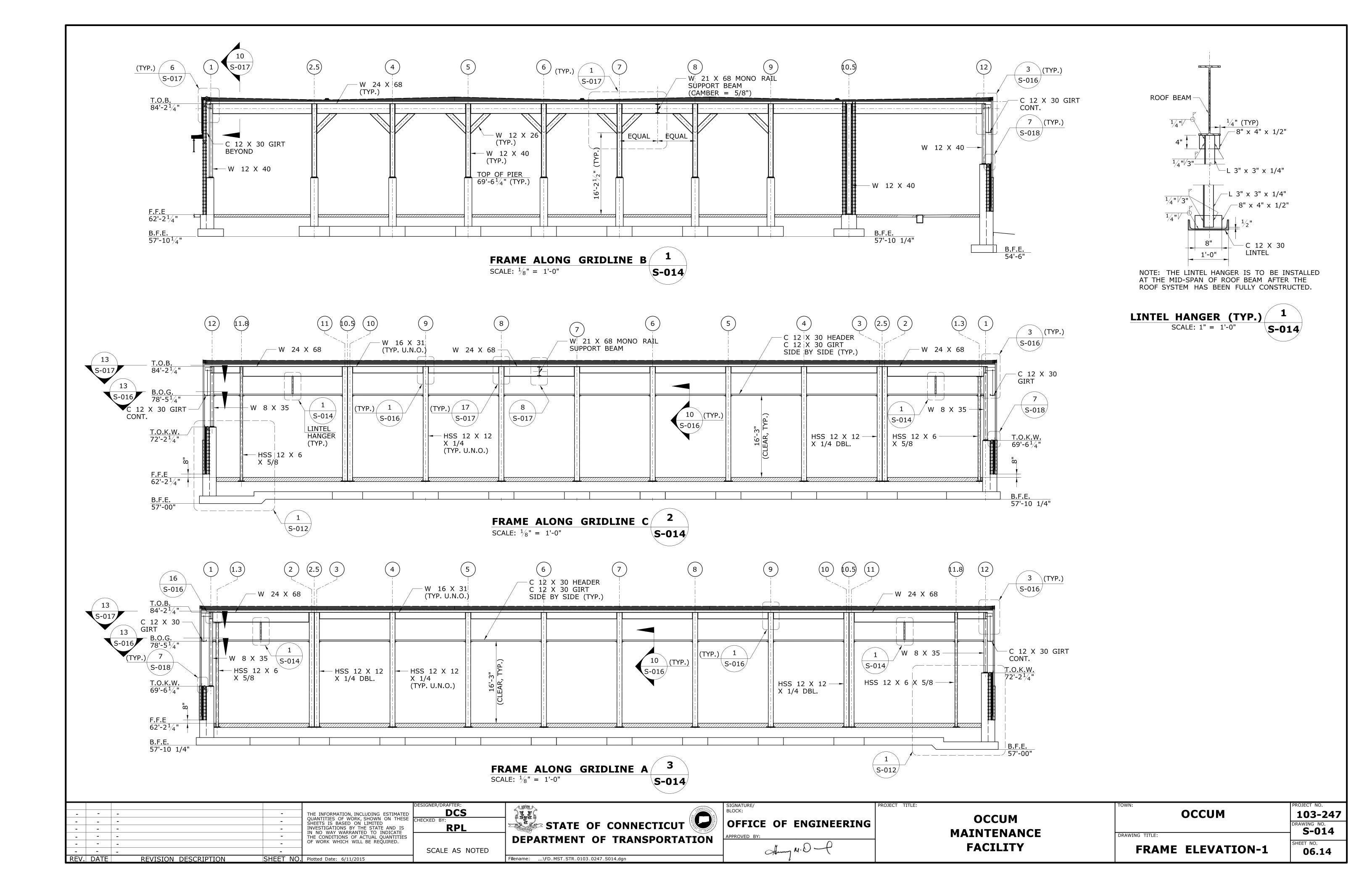


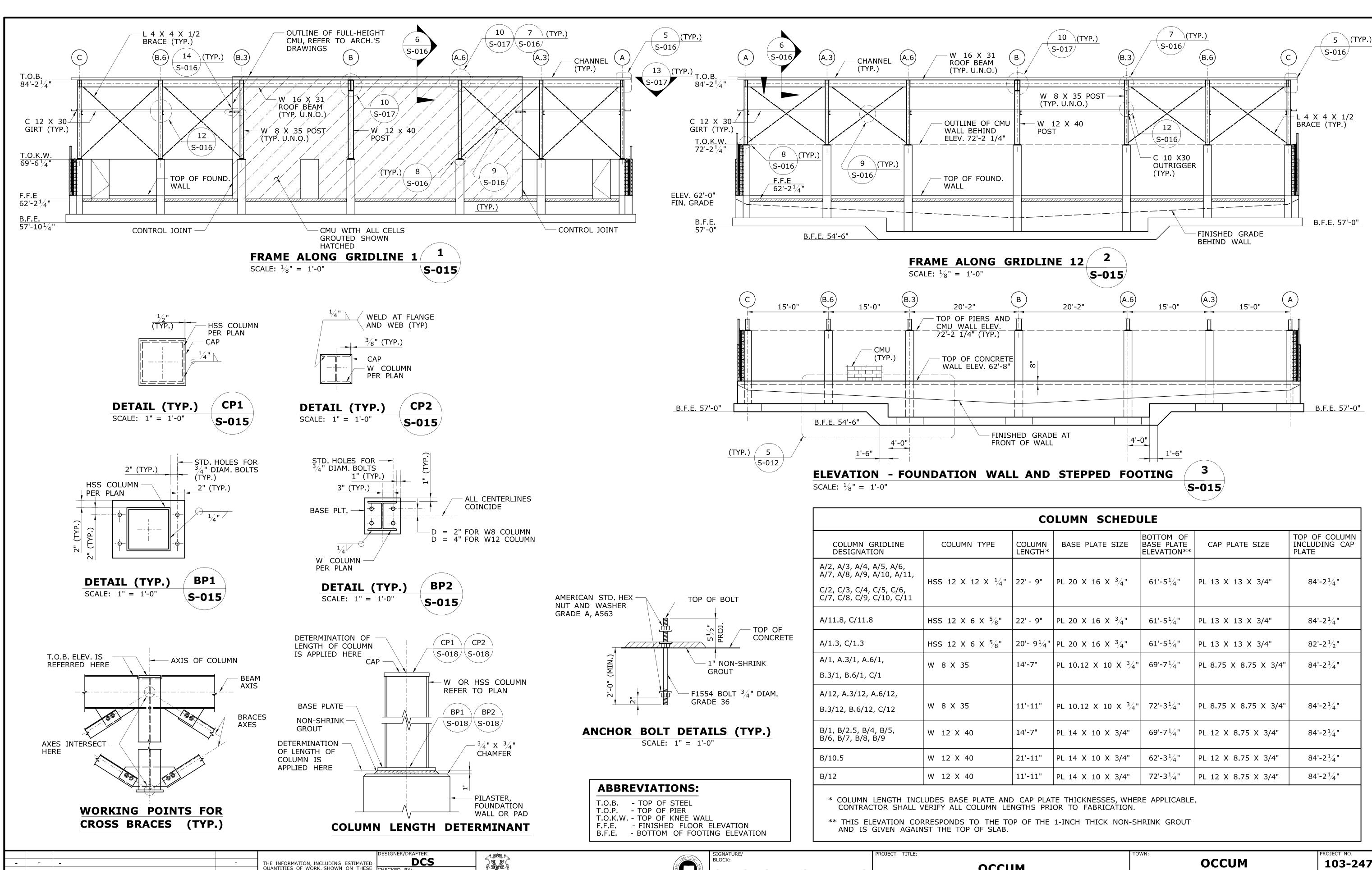




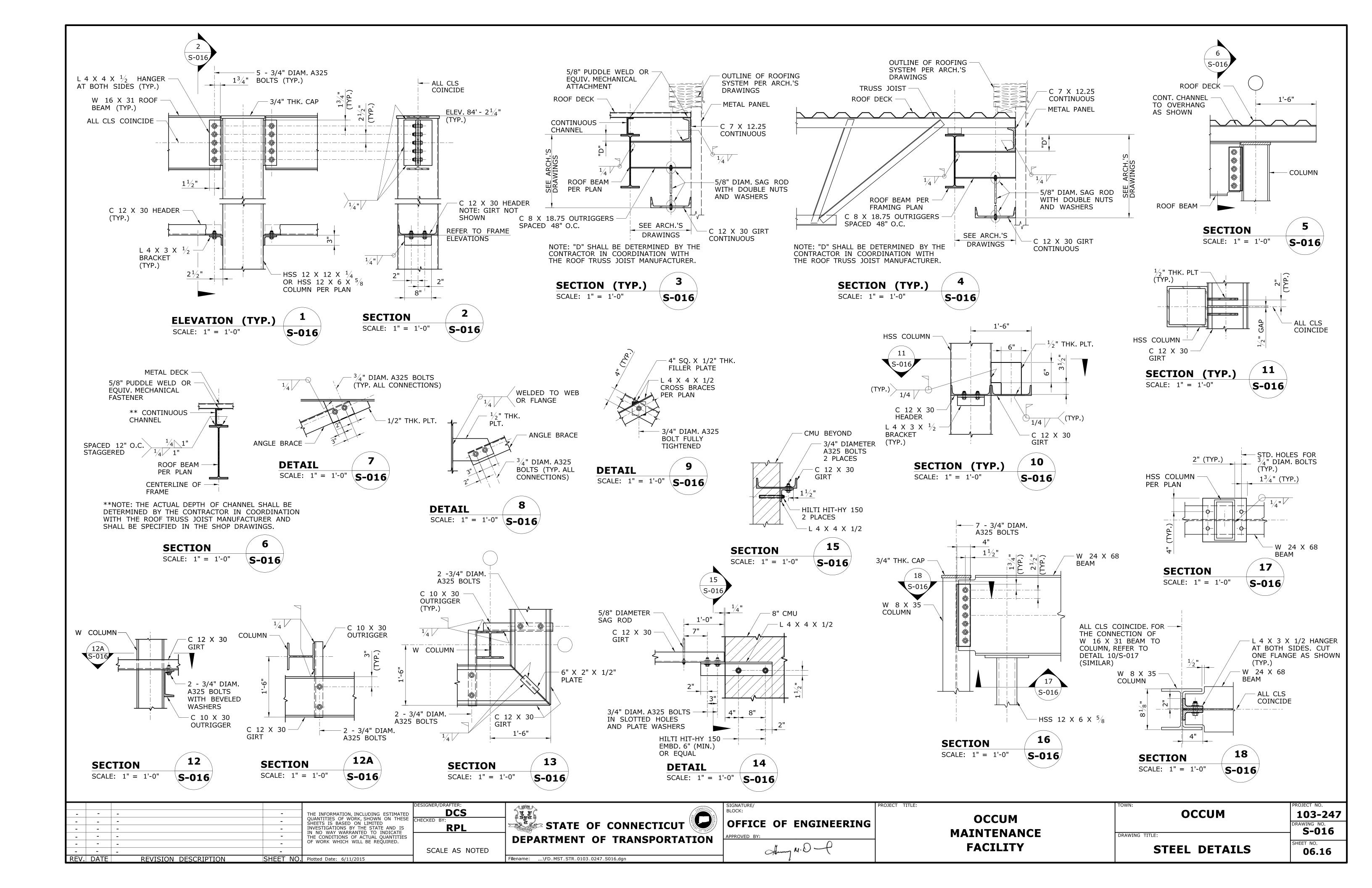


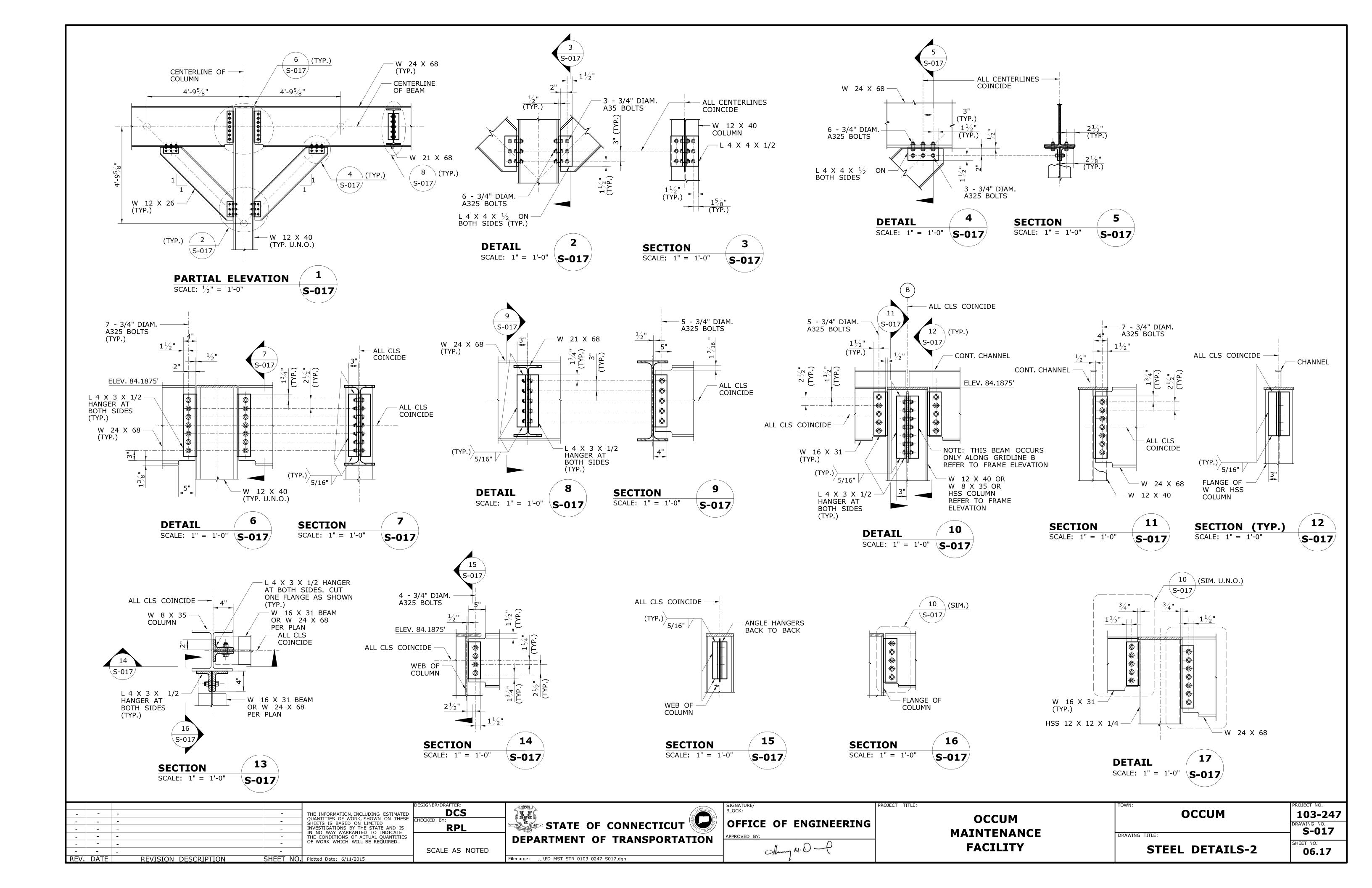


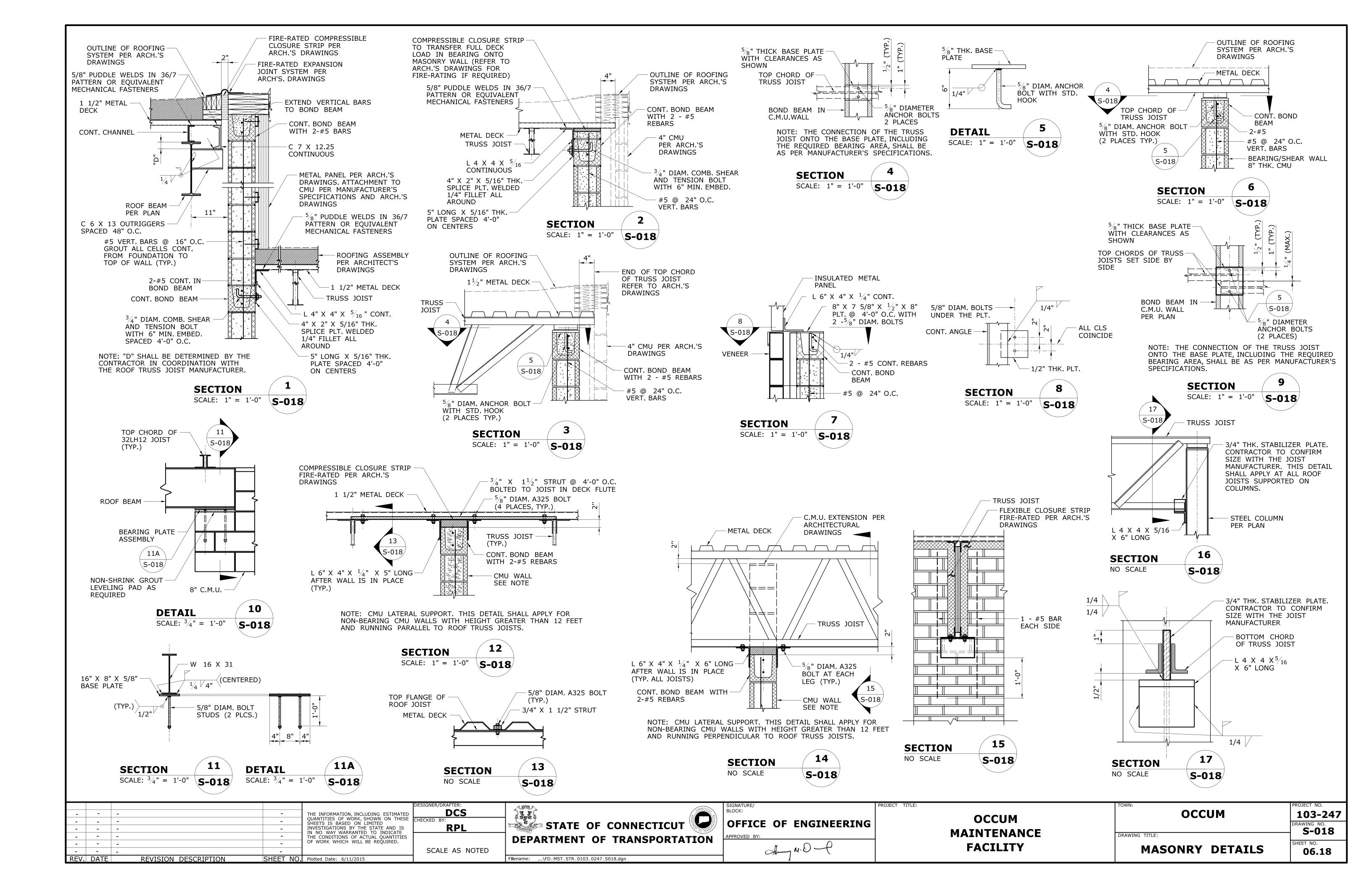


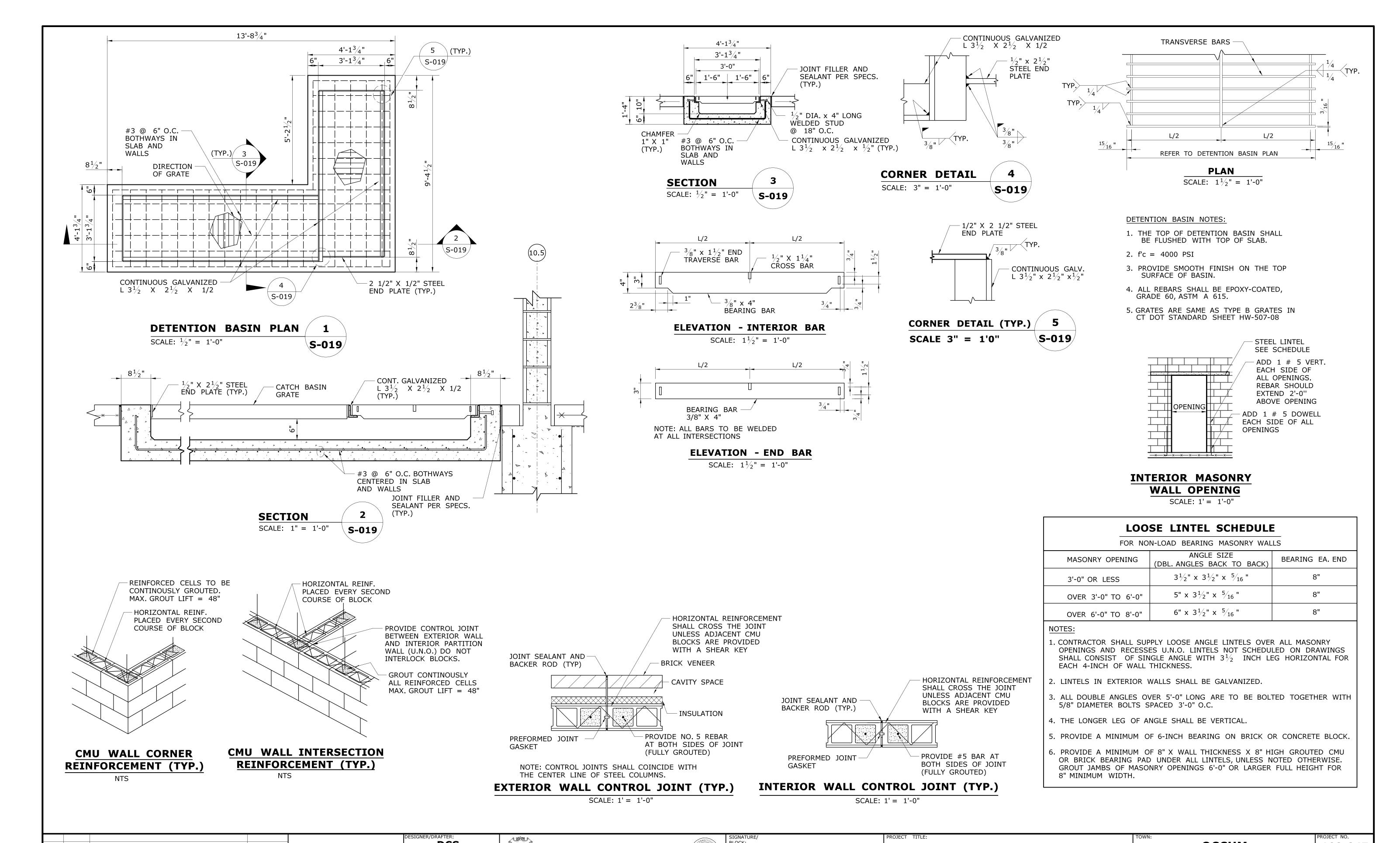


STATE OF CONNECTICUT 103-247 THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED **OCCUM** OFFICE OF ENGINEERING - - -RPL INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE - | - | -S-015 **MAINTENANCE** DRAWING TITLE: _ _ _ _ THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. **DEPARTMENT OF TRANSPORTATION** - | - | -Amy N.D. **FACILITY** FRAME ELEVATION-2 - - -SCALE AS NOTED 06.15 REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 6/11/2015 Filename: ...\FD_MST_STR_0103_0247_S015.dgn

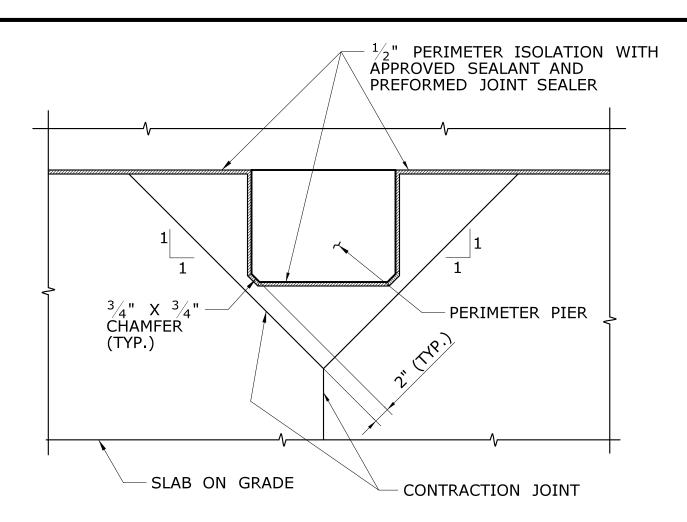




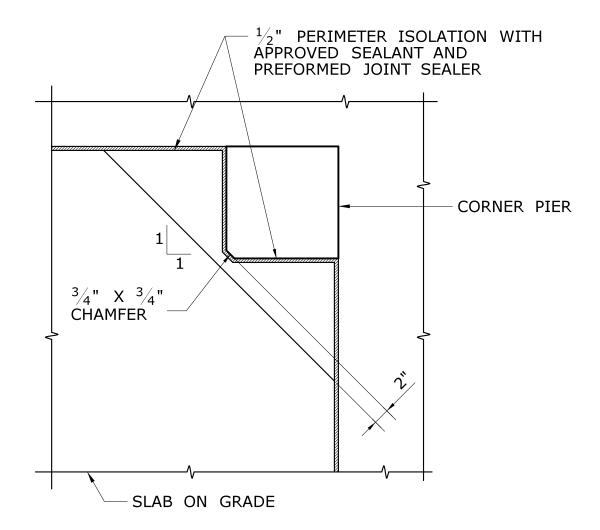




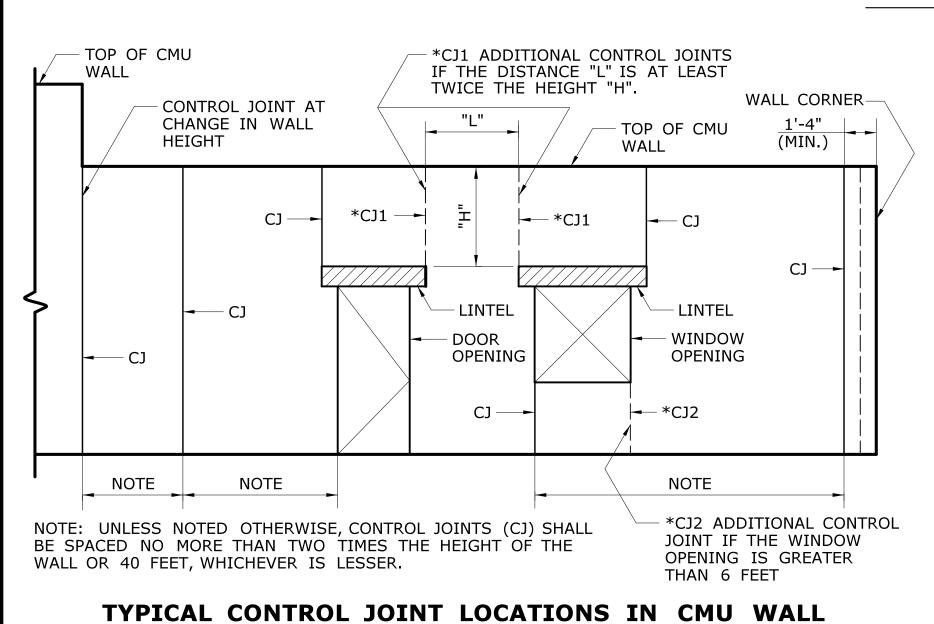
STATE OF CONNECTICUT **DCS OCCUM** 103-247 THE INFORMATION, INCLUDING ESTIMATED **OCCUM** QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED OFFICE OF ENGINEERING - - -RPL INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE S-019 - | - | -**MAINTENANCE** _ | - | -THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. **DEPARTMENT OF TRANSPORTATION** MASONRY, DETENSION **FACILITY** Amy N.D. 06.19 SCALE AS NOTED BASIN DETAILS REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 6/15/2015 Filename: ...\FD_MST_STR_0103_0247_S019.dgn



ISOLATION JOINT AT PERIMETER PIERS

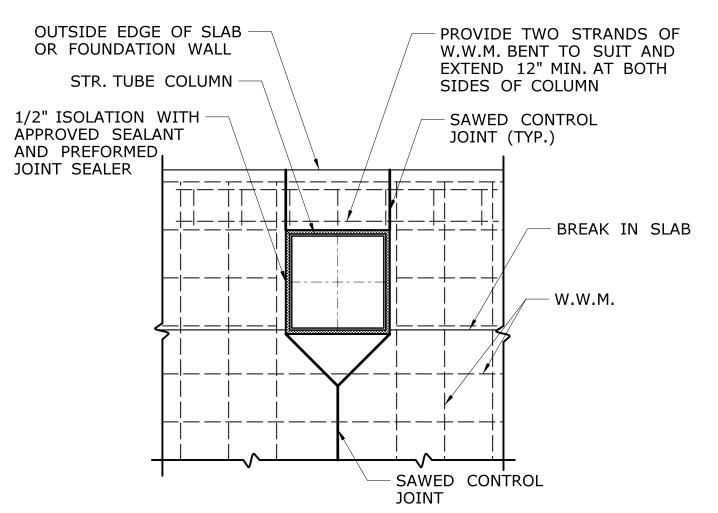


ISOLATION JOINT AT CORNER PIERS

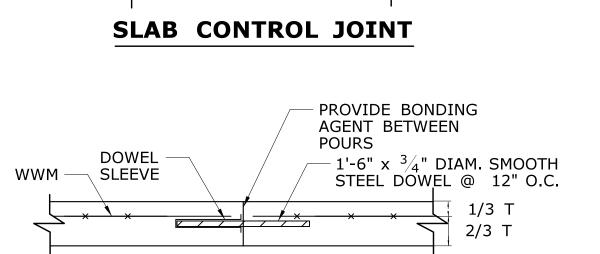


CONTRACTION JOINT (TYP.) 2" PERIMETER ISOLATION WITH APPROVED SEALANT AND PREFORMED JOINT SEALER - INTERIOR PIER SLAB ON GRADE $\frac{3}{4}$ " X $\frac{3}{4}$ " ĆHAMFEŔ (TYP.)

ISOLATION JOINT AT INTERIOR PIERS



ISOLATION JOINT AT STR. TUBE COLUMN



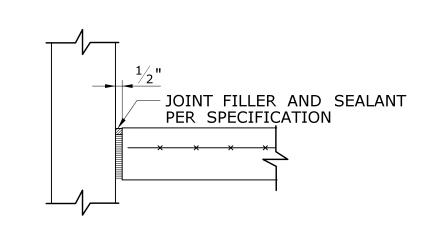
T/4 DEEP SAWN

CONTROL JOINT

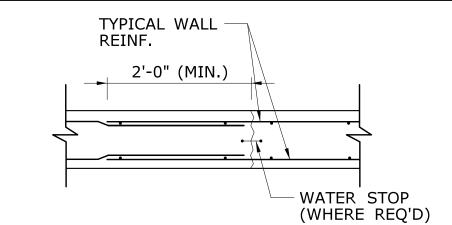
WITH JOINT FILLER

- 1) CONSTRUCTION JOINT SHALL BE FORMED FULL DEPTH OF SLAB.
- 2) DOWELS OR DOWEL SLEEVES SHALL BE INSTALLED AND SECURED AGAINST' DISPLACEMENT PRIOR TO POUR. DOWELS SHALL NOT BE INSTALLED AFTER POUR.
- 3) DOWEL SLEEVES SHALL BE USED ON ONE SIDE OF JOINT WITH THE OTHER SIDE EXPOSED TO CONCRETE.

SLAB CONSTRUCTION JOINT (TYP.)



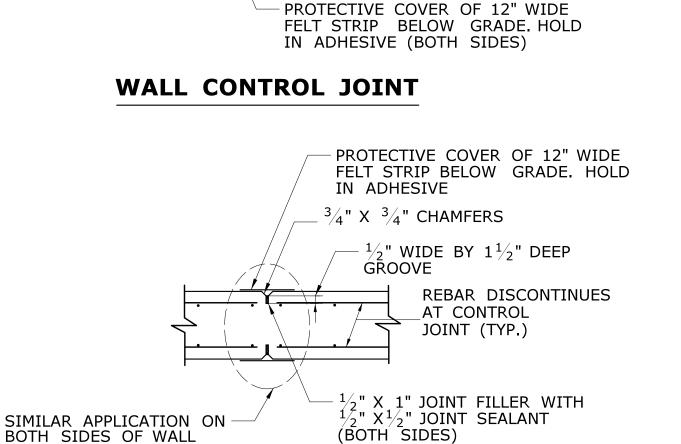
SLAB ON GRADE ISOLATION JOINT



NOTES:

- 1) CONSTRUCTION JOINT SHALL BE 1'-0" (MIN.) FROM ANY CORNER
- 2) REINFORCING SHALL EXTEND 2'-0" (MIN.) BEYOND JOINT.
- 3) CONSTRACTION JOINT LOCATION TO BE DETERMINED BY CONTRACTOR AND APPROVED BY ENGINEER.

WALL CONSTRUCTION JOINT



- CENTERED ON JOINT

 \sim $^{3}/_{4}$ " \times X $^{3}/_{4}$ " CHAMFERS

- 1³/₄" DEEP GROOVE

 $^{1}\!\!/_{2}$ " X 1" JOINT FILLER WITH $^{1}\!\!/_{2}$ " X $^{1}\!\!/_{2}$ " JOINT SEALANT

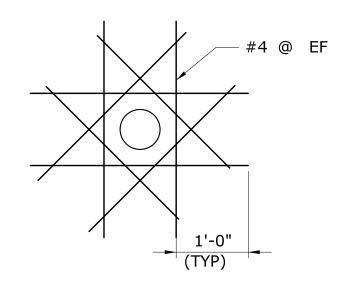
@ 3'-0" O.C. E.F.

EACH SIDE

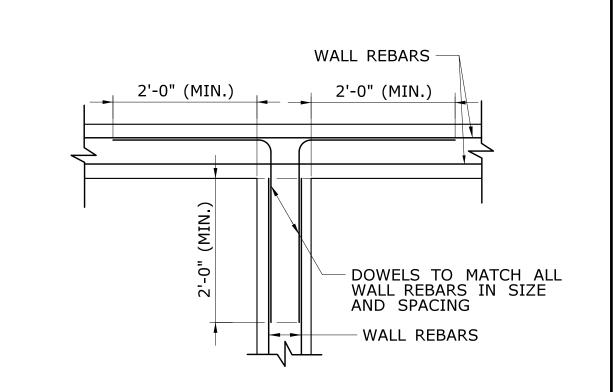
(BOTH SIDES)

FOUNDATION WALL CONTROL JOINT AT BUILDING EXPANSION JOINT

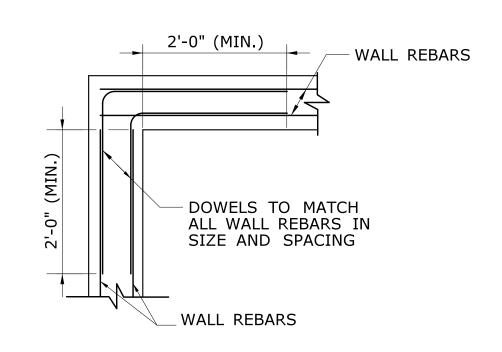
BOTH SIDES OF WALL



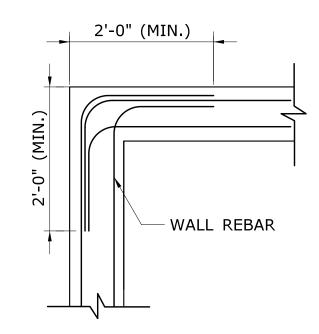
ADDITIONAL REBARS AT PENETRATIONS



REBARS AT WALL INTERSECTONS



REBARS AT WALL CORNERS



REBARS AT WALL CORNERS (ALTERNATE)

-		-	-	THE INFORMATION, INCLUDING ESTIMATED
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE
-		-	-	THE CONDITIONS OF ACTUAL QUANTITIES
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.
_	-	-	_	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 6/11/2015

DCS RPL SCALE AS NOTED

STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION** Filename: ...\FD_MST_STR_0103_0247_S020.dgn

OFFICE OF ENGINEERING Amy N.O.

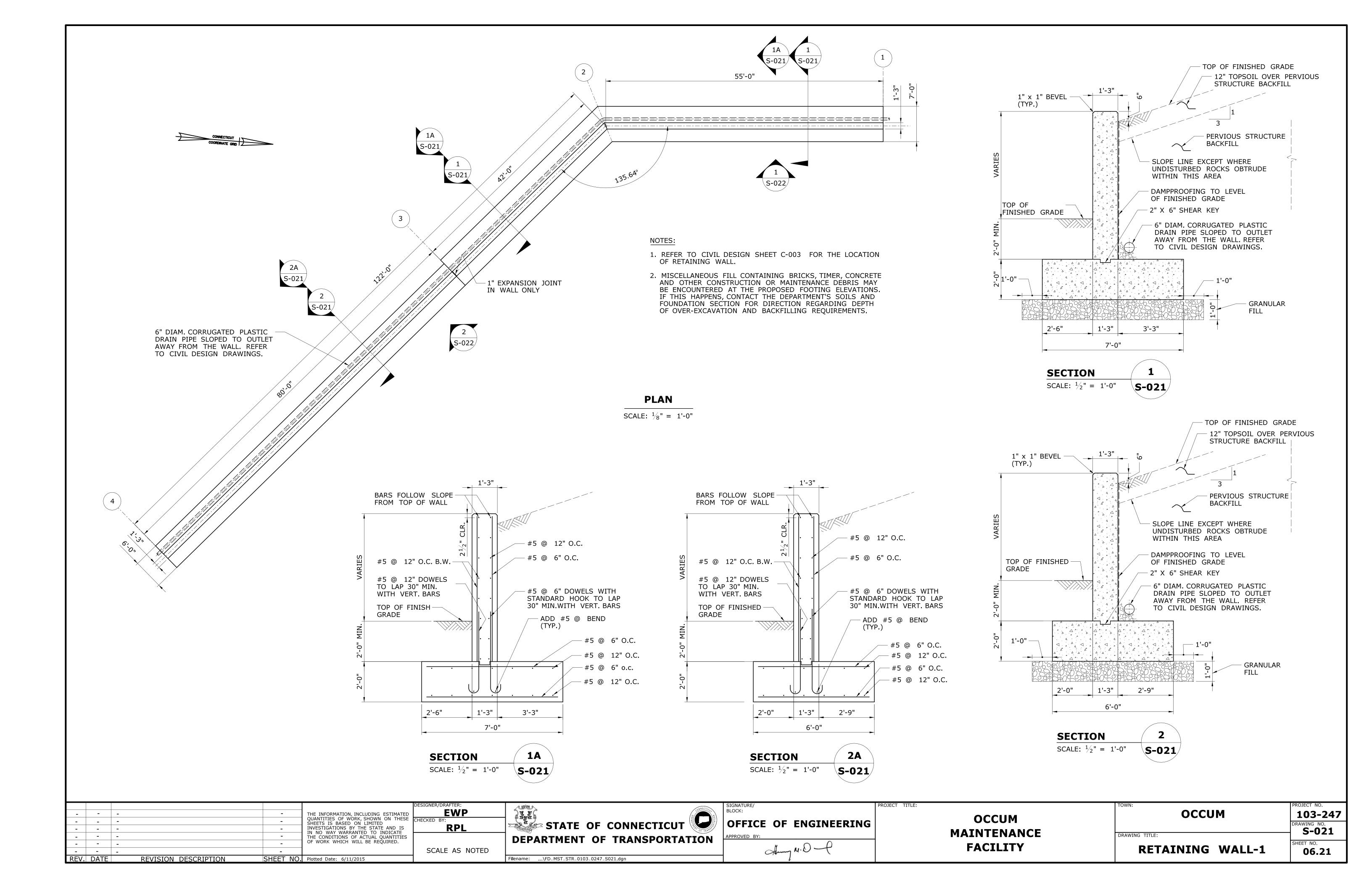
OCCUM **MAINTENANCE FACILITY**

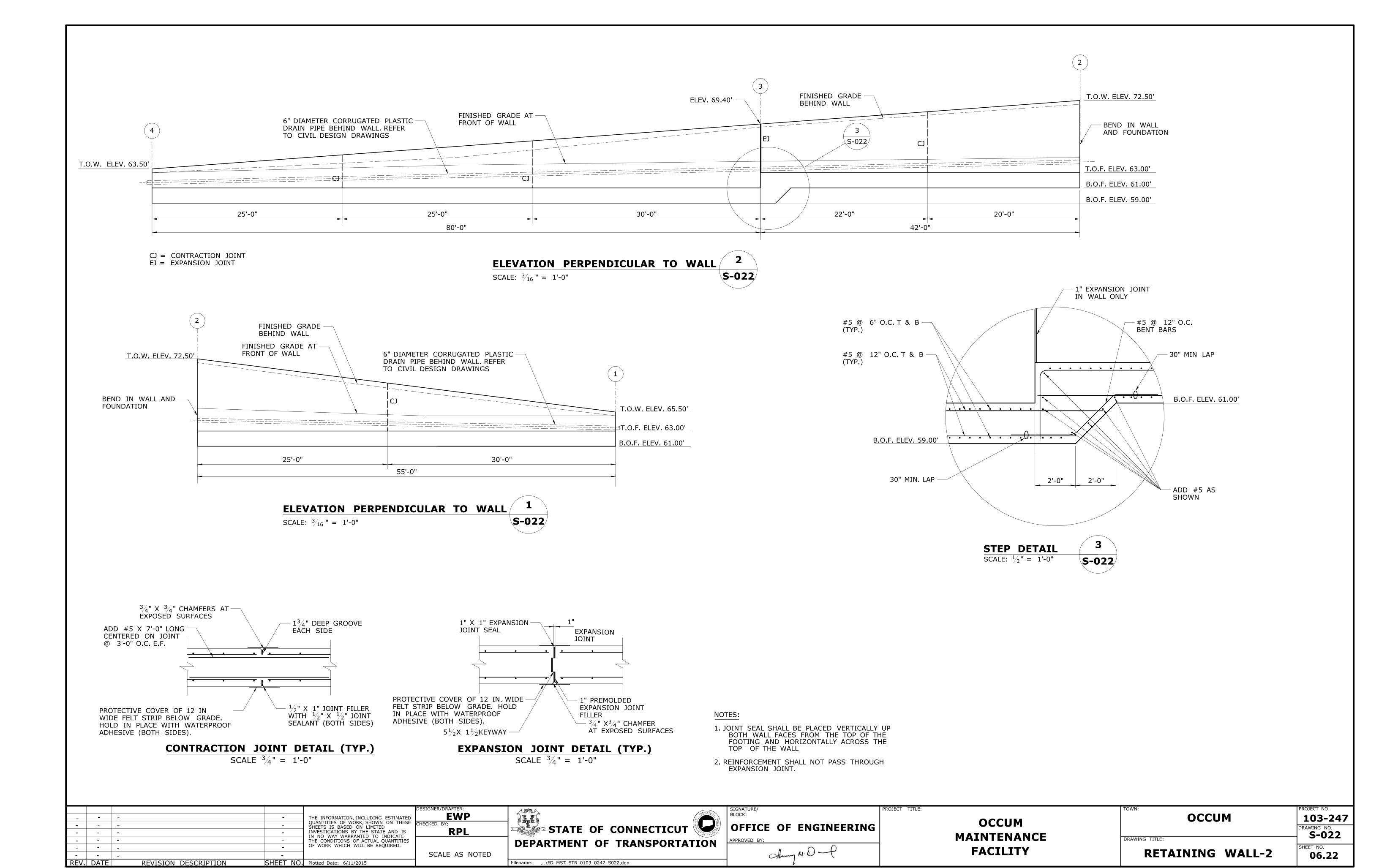
OCCUM MISC. TYPICAL CONCRETE **DETAILS**

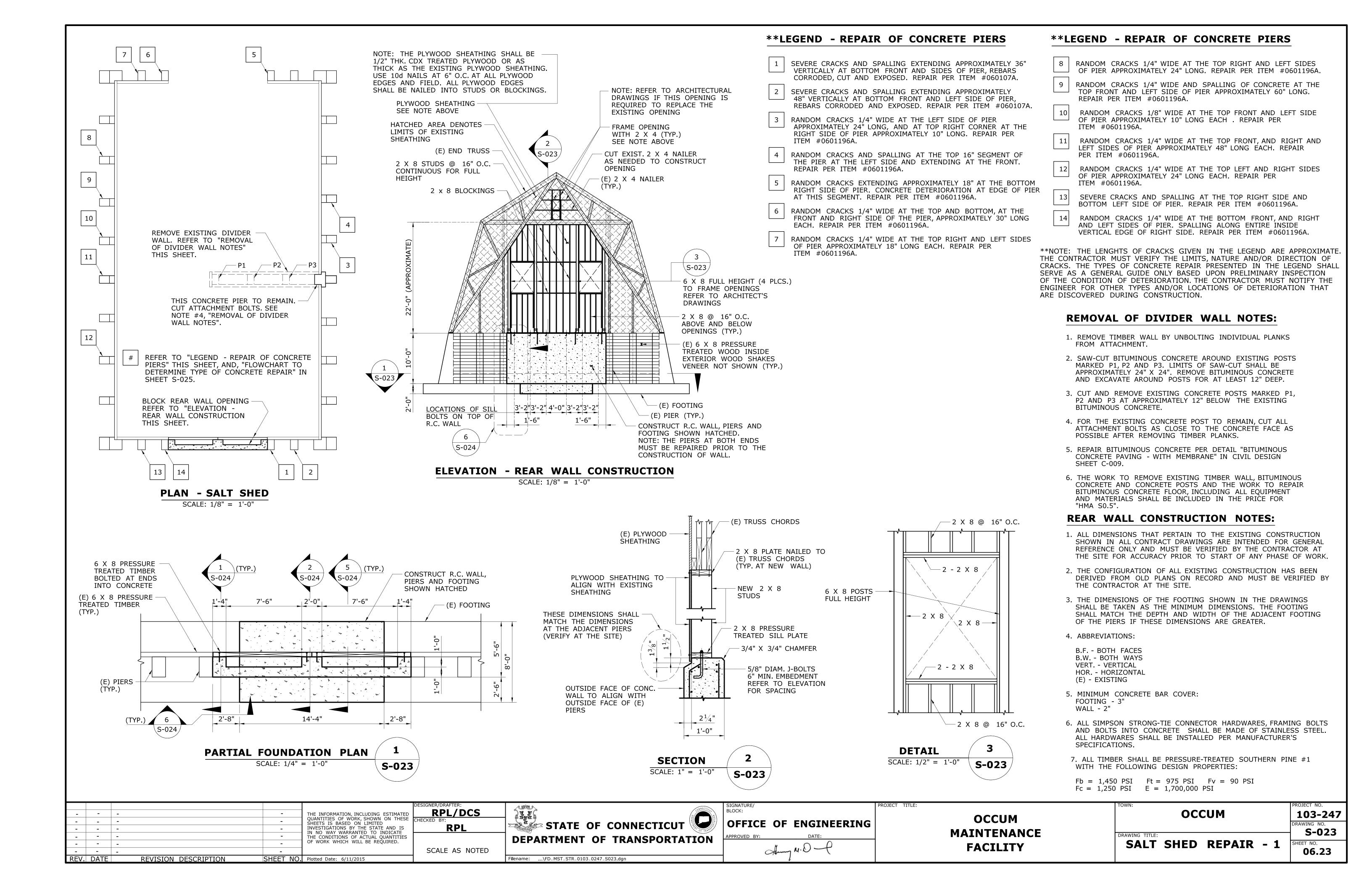
103-247

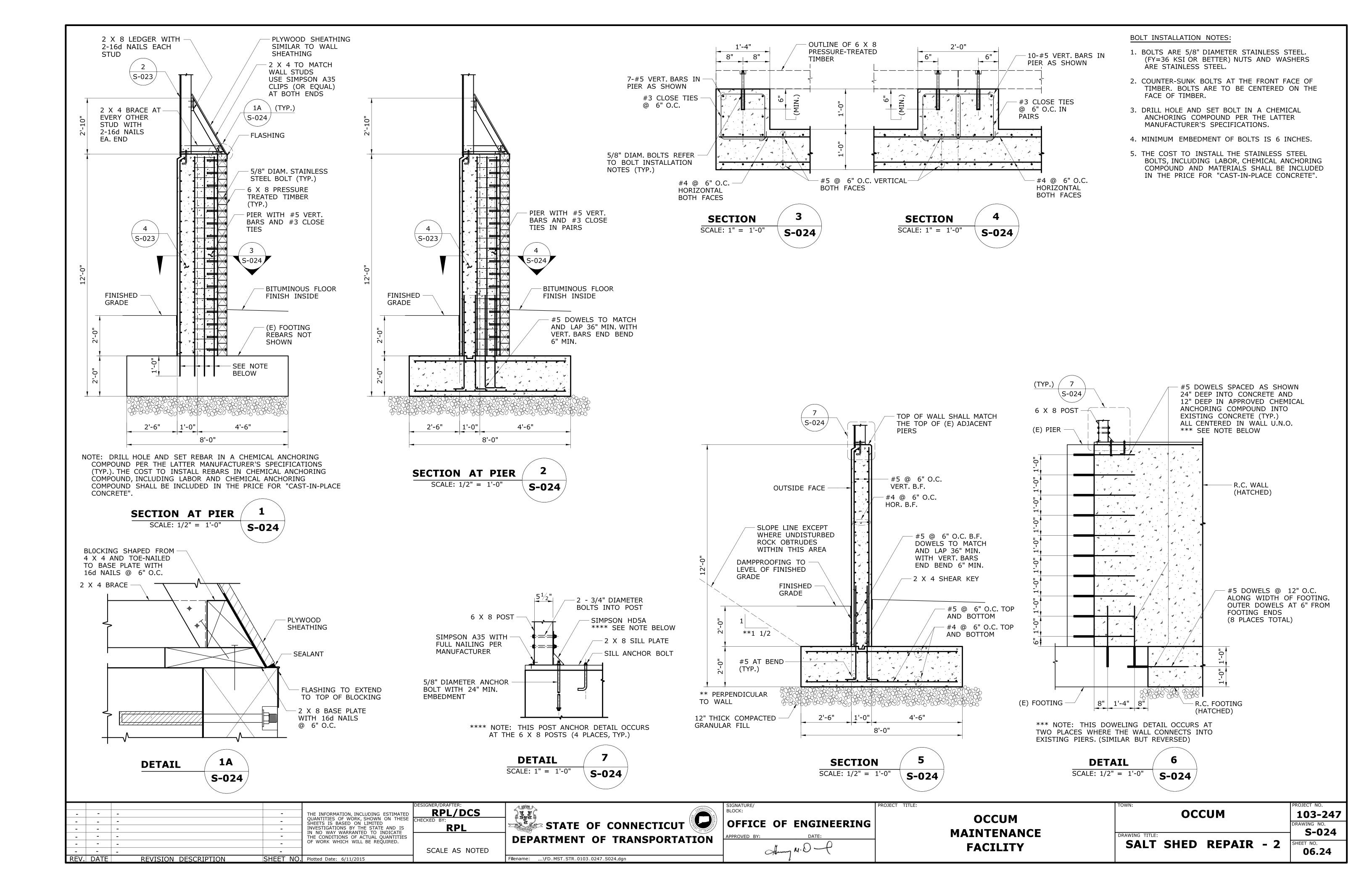
RAWING NO.
S-020

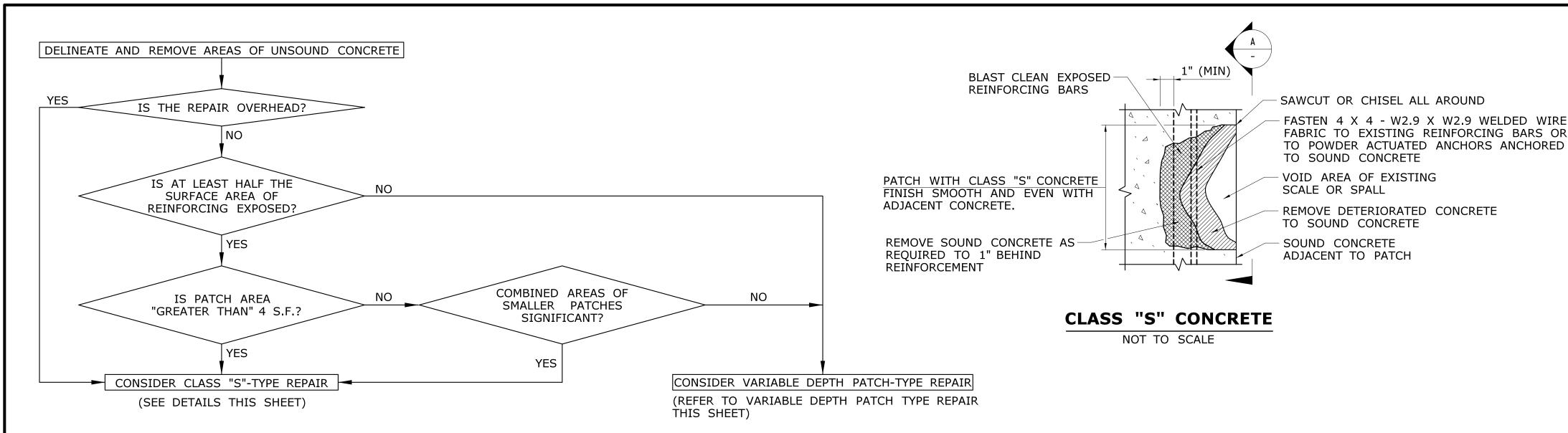
06.20



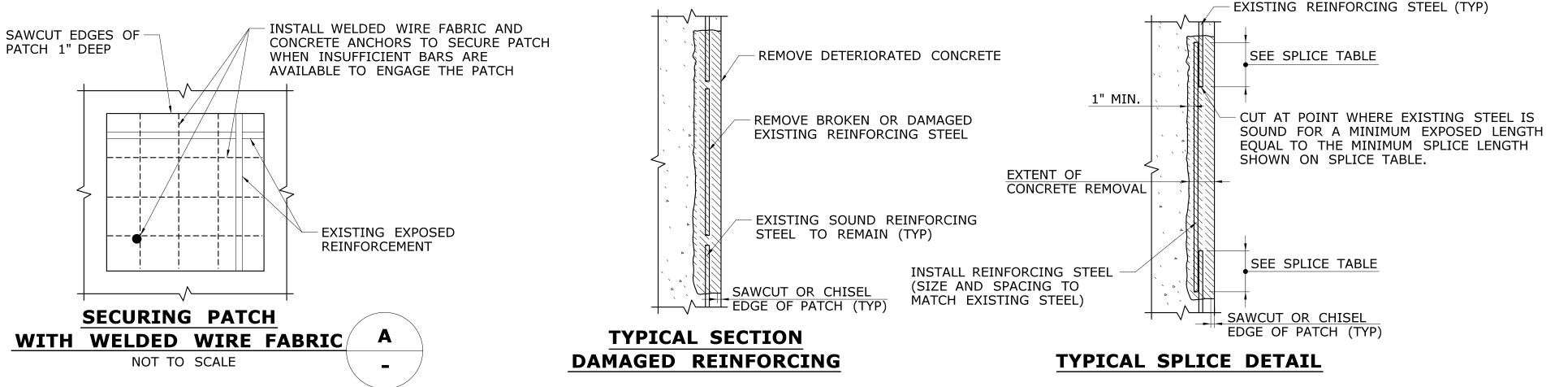






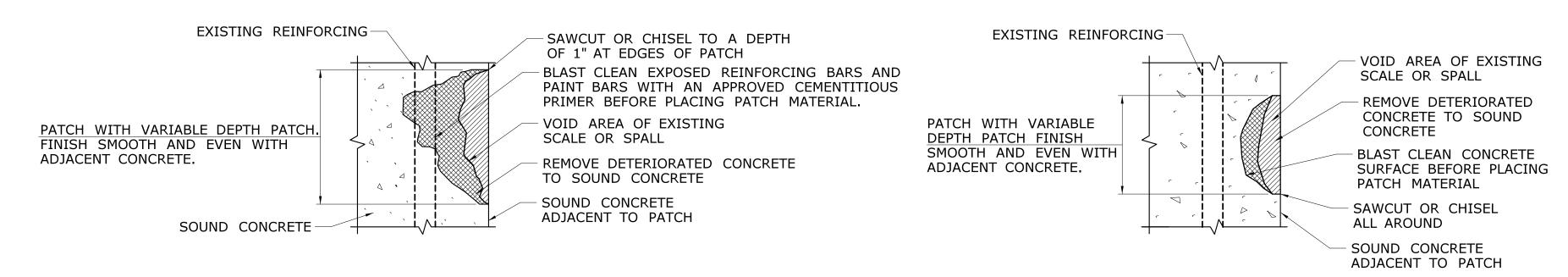


FLOWCHART TO DETERMINE TYPE OF CONCRETE REPAIR



REINFORCING REPAIR DETAIL

NOT TO SCALE



VARIABLE DEPTH PATCH TYPE REPAIR (REINFORCING PARTIALLY EXPOSED)

SHEET NO. Plotted Date: 6/15/2015

VARIABLE DEPTH PATCH TYPE REPAIR (NO REINFORCING EXPOSED)

NOT TO SCALE NOT TO SCALE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE - - -SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS - | - | -N NO WAY WARRANTED TO INDICATE _ | _ _ _ THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

REVISION DESCRIPTION

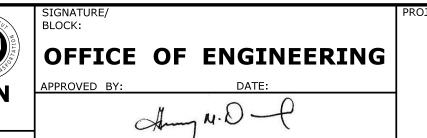
- - - -

- - -

REV. DATE

RPL/DCS SCALE AS NOTED

STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION** Filename: ...\FD_MST_STR_0103_0247_S025.dgn



OCCUM MAINTENANCE FACILITY

OCCUM 103-247 **SALT SHED REPAIR - 3**

S-025

06.25

THE ENGINEER WILL DETERMINE THE LOCATIONS OF UNSOUND OR DETERIORATED CONCRETE TO BE REPAIRED. THE METHOD USED TO DELINEATE AREAS OF CONCRETE TO BE REPAIRED SHALL NOT PERMANENTLY MARK THE CONCRETE, LEAVE ANY RESIDUE AFTER REMOVAL, OR REQUIRE HARSH CHEMICALS TO REMOVE.

THE CONTRACTOR SHALL REMOVE THE DETERIORATED CONCRETE IN ACCORDANCE WITH THE GUIDELINES SET IN THESE NOTES AND IN THE SPECIAL PROVISIONS AND THE ENGINEER WILL DETERMINE THE TYPE OF REPAIR REQUIRED FOR EACH AREA USING THE FLOWCHART ON THIS SHEET AS A GUIDELINE FOR REPAIR TYPES.

CLASS "S" CONCRETE

GENERAL

THIS TYPE OF REPAIR SHALL BE USED WHERE THE REINFORCING BARS ARE SUFFICENTLY EXPOSED TO ENGAGE AND ANCHOR THE PATCHING MATERIAL. CLASS "S" CONCRETE MAY BE USED FOR SMALLER AREAS LESS THAN FOUR SQUARE FEET WHERE THERE IS A SUFFICIENT TOTAL AREA TO JUSTIFY THE USE OF THIS MATERIAL AND WHERE THE PATCH CAN BE SECURELY ANCHORED BY THE REINFORCING.

BEFORE APPLYING THE PATCHING MATERIAL, THE REINFORCING BARS SHALL BE BLAST-CLEANED.

REINFORCING BAR REPAIRS

REINFORCING WHICH IS DETERMINED BY THE ENGINEER TO BE IN NEED OF REPLACEMENT, SHALL BE REMOVED TO A POINT WHERE IT IS SOUND. THE PATCH SHALL EXTEND A SUFFICIENT DISTANCE BEYOND THIS POINT TO DEVELOP A SPLICE LENGTH SPECIFIED IN THE TABLE ON THIS SHEET.

RESTRICTIONS

THE REMOVAL OF DETERIORATED CONCRETE SHALL PROCEED AS DIRECTED BY THE ENGINEER. IF THE REMOVAL OF DETERIORATED CONCRETE BECOMES EXCESSIVE, THE REMOVAL WORK SHALL BE STOPPED AT THAT LOCATION AND THE ENGINEER NOTIFIED IMMEDIATELY.

MAXIMUM HAMMER SIZE USED TO REMOVE DETERIORATED CONCRETE SHALL BE 15 POUNDS.

IF REMOVAL EXTENDS MORE THAN $1\frac{1}{2}$ " BEHIND THE MAIN REINFORCING BARS, THE REMOVAL WORK SHALL BE STOPPED AND THE ENGINEER NOTIFIED IMMEDIATELY.

IF THE AREA OR DEPTH OF REMOVAL IS DEEMED TO BE EXCESSIVE, THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED BEFORE CONTINUING REMOVAL WORK.

PAY ITEM NOTES

- 1. THE 1" DEEP SAW-CUT SHALL BE INCLUDED IN THE CONTRACT BID PRICE OF THE APPLICABLE REPAIR PAY ITEM.
- 2. REINFORCING BARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "CAST-IN-PLACE CONCRETE".

TABLE OF SPLICE LENGTHS MIN. SPLICE BAR SIZE LENGTH 1'-4" 1'-4" REINFORCEMENT #5 1' -9" SPACING #6 @ \(\) 6" O.C. ** 2' -4" #7 3' -0"

** FOR BARS SPACED "LESS THAN" 6" O.C. MULTIPLY TABLE VALUES BY 1.25